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1.0 About MyMentor

This project has been prepared for Malaysia’s Ministry of Education (MoE), following a series of communications with key staff. It will be delivered collaboratively by three international universities, all of which have branch campuses in Malaysia. The three institutions are all global top 100 universities, according to the QS World University Rankings 2013 (Nottingham: 75; Southampton: 86; Monash: 69). Nottingham and Southampton are both members of the UK’s Russell Group (http://www.russellgroup.ac.uk/) and Monash is a member of Australia’s Group of Eight (http://www.go8.edu.au/).

In long-established/mature research universities, research careers in Science, Technology, Engineering and Mathematics (STEM) typically start with PhD training followed by a period of post-doctoral research in which the individual builds and develops expertise under the guidance of a senior academic. They develop skills to become independent researchers, to build their own groups and lead new projects. This is a well-established process. In some universities, this is sometimes difficult because there is often limited capacity at senior levels. Therefore, external mentoring provides an alternative mechanism – one which develops capacity from external resource – and has the added value of developing collaborative opportunities.

1.1 Details

The proposed mentoring program would pair a mentor/mentee for a period of 24 months. The mentor would come from either Nottingham, Southampton or Monash (and perhaps more than one of these, if the research activity warranted this) and the mentee would come from one of Malaysia’s public universities.

The mentee would be expected to bring their own research ideas (which may have lay dormant for a while) and develop those ideas with the help and assistance of the mentor. Any papers that arise from this collaboration would be jointly authored and we would expect only high quality outlets to be targeted (i.e. ISI papers, especially for STEM (Science, Technology, Engineering and Mathematics) subjects).

There are many ways in which the mentor/mentee arrangement could be arranged. At one extreme, the mentee would remain at their home institution for the duration of the mentoring program and would attend regular meetings with their mentor. The meetings would take place at a mutually convenient location, at mutually agreed frequencies. The frequency of the meetings would be part of the project proposal and would inform the selection process.

At the other extreme, the mentee would be based at the same institution as their mentor for the duration of the project. This will enable them to work more closely with their mentor but they would be away from the home institution and family. It is also potentially an expensive option as there may be travel and accommodation costs
involved (e.g. if the mentor is based in KL and the mentee is not).

The program would welcome proposals following any available model. A possible middle ground in that the mentor/mentee are in institutions located close to one another (e.g. Nottingham/UM, Monash/UKM or Southampton/UTM) that it is easy to make regular visits without incurring significant expenses.

Due to the significant costs, we do not propose that this program funds travel, accommodation and subsistence for any seconded periods (i.e. staying away from home for three months, travelling home at weekends). We note that it is possible to spend significant time at another institution, assuming the institution is located close to the mentees home institution. We would also welcome support from the mentees home institution if they felt that the benefits justified the expense. However, the program will support the costs of regular meetings and the annual workshop. In the following sections, we provide more details about the proposed program.

1.2 Objectives

- To support early career researchers, who have just completed (within the past two years) their PhD.
- For the mentee to establish an independent research career. Assist the mentee in getting into the habit of carrying out research.
- Publish the results of their research as a normal part of their academic life.
- Motivate and support experienced scientists, who are not active researchers, to enable them to publish high quality papers in the leading international journals.
- Over the five year project period, mentor 230 Malaysian scientists (year 1=10, year 2=25, year 3=50, year 4=70, year 5=75).
- Each mentor/minute, to publish at least one, high quality, paper.
- In total, publish at least 350 papers in high quality, high impact journals.
- Organise a workshop each year. Everybody currently enrolled on the program (both mentors/mentees) at that time will be expected to attend.

1.3 Methodology

We want academics to aspire to be part of this program. Therefore, entry to the program will be competitive. We see the following as the major selection criteria and processes:

- Both the mentor and the mentee must have a PhD.
- The mentor must have a proven track record in publishing in high quality journals.
The mentee must be able to argue how they would benefit from being a part of the program.

We will hold an annual recruitment event, where mentors/mentees will attend. This event will introduce the scheme, outline the rules and regulations and will run a series of *match making* events to make introductions between mentees and mentors. We will aim for double the number of mentees and mentors to attend the event as we hope to recruit. That is, we will aim for a 50% success rate for those wishing to apply.

Following the recruitment event, we will invite proposals for potential mentor/mentee pairs. The deadline will be approximately one month after the recruitment event.

The proposal, for which a template will be developed, will need to cover areas such:

- What qualifies the mentor to be part of the program?
- Why should the mentee be on the program?
- A brief project proposal.
- How does the mentee/mentor pairing work, including meeting/secondment arrangements, frequency of meetings etc.
- Where will the mentee be located, and for what periods of time.
- How many papers will the project produce?
- What are the target journals/outlets?
- A timeline for the project.
- What funds are being requested to support the project, with justification where necessary? We will also take into account whether the program represents value for money and would welcome a financial contribution from the mentee’s home institution.

The MyMentor Management Board will consider the applications, producing a ranking. The top $n$ (where $n$ is the number to be funded that year) will be funded, assuming that the project has crossed a threshold which says that the project is fundable.
2.0 Capabilities

The three institutions involved in this initiative are all broad based universities. As such, they are able to cover a wide variety of disciplines. However, to give some idea of some of their expertise we have provided a short summary in Appendix D (UNMC), Appendix E (USMC) and Appendix F (MUM) of the main capabilities of each institution.

The table of contents and the Researcher’s Guide table is designed to give easy navigation. When you click the respective university from the table of contents that will take you to the list of researchers from that university. Click on the researcher’s name and that will take you to the researchers compatibility statement.
## 3.0 Researcher’s Guide

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## MyMentor
### Capability Statement

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## Mentors

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**Research Areas**

- Computer Science
- Psychology
- Pharmacy
- Chemistry
- Geography
- Ecology
- Medicine
- Biomedical
- Applied Microbiology
- Biostatistics
- Biotechnology
- Food Technology
- Food Security
- Neuroscience
- Physical Science
- Engineering
- Mathematics
- Electrical & Electronics
- Chemical
- Mechanical & Materials
- Manufacturing
- Environment
- Education
- Educational Leadership & Management
- International Relations
- Law
- Accounting & Auditing
- Taxation
- Finance
- Banking
- Business
- Management
- Leadership
- Economics
- Modern Languages & Cultures
- Human Resource & Organisational behaviour
- Tourism
4.0 MyMentor Capabilities

4.1 University of Nottingham Malaysia Campus

Dr. Abdur Rakib
Dr. Ahmed Dahir Mohamed
Dr. Ai Bao Chai
Dr. Albert Tshai Kim Yeow
Dr. Amin Malekmohammadi
Professor Arusha Cooray
Professor Asgar Ali
Dr. Carol Hooi
Dr. Chin Chiew Foan
Dr. Lim Chin Seong
Professor Chong Mei Fong
Dr. Siang Yew Chong
Dr. Chiang Choon Lai
Dr. Chris Roadknight
Dr. Chuen-Khee PEK
Professor Claire O’Malley
Professor Dominic C. Y. Foo
Dr. Md Enamul Hoque
Dr. Ernesto Hernandez
Professor Graham Kendall
Dr. Hii Ching Lik
Dr. Jee-Hou Ho
Dr. Hon Loong Lam
Dr. Iman Yi Liao
Dr. Jayalakshmy Ramachandran
Dr. Julien Mayor
Dr. Kalaimagal Ramakrishnan
Dr. Khiew Poi Sim
Dr. Khoo Gaik Cheng
Dr. Kinya Hotta
Ir. Prof. Law Chung Lim

Dr. Lee Chan Wai
Dr. Mamunur Rashid
Dr. Maniam Kaliannan
Dr. Matthew Ashfold
Dr. Md Mobin Siddique
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Dr. Show Pau Loke
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Professor Stephen Doughty
Dr. Suzanne McGowan
Dr. Tapan Kumar Nath
Dr. Teo Lee Peng
Dr. Then Sue-Mian
Dr. Ting Timm Joyce
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Professor Tony Bush
Dr. Tuong-Thuy Vu
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4.1.1 Dr. Abdur Rakib

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<tr>
<td>Main Research Area(s)</td>
<td>Semantic web, Multi-agent systems, Formal verification, Model checking</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Abdur Rakib</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Abdur.Rakib@nottingham.edu.my">Abdur.Rakib@nottingham.edu.my</a></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:go4rakib@gmail.com">go4rakib@gmail.com</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://kefzabr.jupiter.nottingham.edu.my/">http://kefzabr.jupiter.nottingham.edu.my/</a></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise.

My research interests and activities are in the area of formal modeling and verification of agent-based systems. This covers the foundations as well as the design, implementation, and application of intelligent agents to social complex systems. I am also interested in Semantic Web & Agent Technologies, knowledge representation and reasoning using ontologies, and ontology-driven context-aware systems. The key areas I have experience include:

- Logics for multi-agent systems (specifically, temporal epistemic logics)
- System modeling using ontologies
- System verification using model checking techniques
- Knowledge representation and reasoning over heterogeneous data sources
- Designing and verifying smart space systems (specifically, context-aware systems)

The main aim of our research is to examine the modelling principles and various verification approaches of intelligent reasoning systems, and to increase the cross-fertilization and the advancement of ideas on the design, implementation, and application of context-aware systems to social complex systems, including health-care systems, emergency scenarios, and disaster recovery.
List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

24

List any patents you have registered

0
## 4.1.2 Dr Ahmed Dahir Mohamed

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Psychology/Faculty of Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Currently investigating ways to enhance cognition in young adolescents and adults, using non-invasive and non-pharmacological techniques. I use PET, fMRI, EEG and behavioural tasks to investigate how to improve cognition in healthy adults and in patients with neuropsychiatric disorders.</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Ahmed Dahir Mohamed</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:ahmed.mohamed@nottingham.edu.my">ahmed.mohamed@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Psychology/People/ahmed">http://www.nottingham.edu.my/Psychology/People/ahmed</a>.</td>
</tr>
</tbody>
</table>

### Give a brief description of your research interests and/or expertise

I am currently interested in investigating ways to enhance cognition in young adolescents and adults, using non-invasive and non-pharmacological techniques. I use PET, fMRI, EEG and behavioural tasks to investigate how to improve cognition in healthy adults and in patients with neuropsychiatric disorders.

### List up to 10 of your most recent or most important papers, giving the full citation

2. MOHAMED, AD, 2014. The Effects of Modafinil on Convergent and Divergent Thinking of Creativity: A Randomized Controlled Trial The Journal of Creative Behavior.


8. MOHAMED, A D & LOEWENTHAL, D, 2009. Is it possible to ethically research the mental health needs of the Somali communities in the UK? Journal of Ethics in Mental Health. 4 (1), 9-14

How many publications, in total, have you published?

8

List any patents you have registered

1. Oxford University Handbook Contract (co-editor with two professors)
4.1.3 Dr Ai Bao Chai

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Mechanical, Materials and Manufacturing Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Elastomers, biomaterials, soft biological tissues, biocomposites</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Chai Ai Bao</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Aibao.chai@nottingham.edu.my">Aibao.chai@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise
Conventionally, composites are reinforced with synthetic fibers to enhance the mechanical properties of the composite systems. However, the petroleum reservoir is depleting and the world is facing environmental degradation due to excessive non-degradable waste materials. Hence, developing alternative composite materials which are cost effective, environmental friendly and biodegradable at the product end of life are amongst the most highly regarded research initiative.

Our research focuses on petrochemical based (i.e. rubbers) and bio-based (i.e. polylactide acid (PLA)) matrices utilizing natural reinforcing fibers (i.e. kenaf fibre) biocomposites. We study the mechanical, thermal, morphological, chemical resistance and water absorption properties of the biocomposites and also evaluate the mechanical performance of the biocomposites in service conditions aiming at producing durable and robust biocomposites.

List up to 10 of your most recent or most important papers, giving the full citation


**How many publications, in total, have you published?**

10

**List any patents you have registered**

0
**4.1.4 Dr. Albert Tshai Kim Yeow**

<table>
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</thead>
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<tr>
<td>School/Department/Faculty</td>
<td>Mechanical, Materials and Manufacturing Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Polymer processing, Materials Modeling, Fiber Reinforced Composites, FEA, Process Modeling and Optimizations</td>
</tr>
<tr>
<td>Name</td>
<td>Tshai Kim Yeow</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Kim-Yeow.Tshai@nottingham.edu.my">Kim-Yeow.Tshai@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Engineering/Departments/M3/People/kim-yeow.tshai">http://www.nottingham.edu.my/Engineering/Departments/M3/People/kim-yeow.tshai</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

In the industry, a large proportion of polymer processing methods for mass manufacturing of plastic parts and the design of polymer composites for various structural applications are not operating in their optimum performance.

If you ever wish to maximise material properties, improve part reliability and reduce part weight, time, energy, waste etc., then we can work out an optimised solution.

The areas we have experience include (but, we can tackle many other areas)

- Injection molding
- Blow molding
- Thermoforming
- Biodegradable polymers / polymer composites
- Fibre reinforced composite
- Nanocomposite
- Finite element analysis
- Material characterization
- Constitutive material modeling
- Composite pipeline rehabilitation system

We applied fundamental principles with 'state-of-the-art' techniques to ensure properties and performance are perfectly adapted to design specifications. Our team combine curiosity-driven research with application-driven objectives, leading the development of advanced scientific discovery in the field of polymer composites.
List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

>50

List any patents you have registered

0
4.1.5 Dr. Amin Malekmohammadi

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<th>Institution</th>
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<tr>
<td>School/Department/Faculty</td>
<td>Electrical and Electronic Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Optical Fiber Communication systems, Transmission systems including advance modulation and multiplexing techniques, Photonic Devices and optical signal processing</td>
</tr>
<tr>
<td>Name</td>
<td>Amin Malekmohammadi</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Amin.Malek@nottingham.edu.my">Amin.Malek@nottingham.edu.my</a></td>
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<td>URL</td>
<td><a href="http://www.nottingham.ac.uk/engineering/departments/eee/people/amin.malek">http://www.nottingham.ac.uk/engineering/departments/eee/people/amin.malek</a></td>
</tr>
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</table>

**Give a brief description of your research interests and/or expertise**

For more than nine years, I have worked in the area of advanced modulation and multiplexing techniques, especially in test and measurement of coherent communication systems, advanced modulation formats, long distance signal transmission and signal processing techniques for next generation of optical communications. This has resulted in the publication of more than 55 journal articles, international conference papers, and book chapters; 4 patents and several medals and awards in international and national exhibitions.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**

>55

**List any patents you have registered**

1. A new multiplexer, Demultiplexer and data recovery rules for DCDM technique (Malaysia PI20095256)

2. Absolute Polar Duty Cycle Division Multiplexing for optical communication (Malaysia PI20095257)

3. Demultiplexer and Data Recovery Rules for Absolute Polar Duty Cycle Division Multiplexing (Malaysia PI20093633)

4. A coding method for optical communication systems (PI2012700631)
### 4.1.6 Professor Arusha Cooray

<table>
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<td>School/Department/Faculty</td>
<td>Business School</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Applied Macroeconomics</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Arusha Cooray</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Arusha.Cooray@nottingham.edu.my">Arusha.Cooray@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Business/People/arusha.cooray">http://www.nottingham.edu.my/Business/People/arusha.cooray</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

My research interests lie in the area of Applied macroeconomics, specifically, development macroeconomics, open economy macroeconomics and macro-finance. While I work on developed countries as well, I am especially interested in the developing countries. I have worked on issues related to growth, education, banking, and the open economy to name a few.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**
> 70 (including working papers and conference papers)

**List any patents you have registered**

0
4.1.7 Professor Asgar Ali

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<th>Institution</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Biosciences, Faculty of Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Horticulture, Postharvest physiology and technology, fruits and vegetables, postharvest losses, food technology and food security</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Asgar Ali</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Asgar.Ali@nottingham.edu.my">Asgar.Ali@nottingham.edu.my</a></td>
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<td><a href="http://www.nottingham.edu.my/cepb">www.nottingham.edu.my/cepb</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Experiences span across knowledge of the physiology and biochemistry of fruits and vegetables to the field of post-harvest technology. Primarily the isolation and characterization of bioactive compounds extracted from fruits and vegetables as well as their effect on human health and well-being is a subject of great experience. Additionally, the analysis of physico-chemical and sensory characteristics of fruits, vegetables and flowers is another area of in-depth understanding. Moreover, an elaborate level of expertise has also been acquired in the field of post-harvest quality and shelf-life of fruits and vegetables. This field also includes thorough knowledge of postharvest technologies to extend the shelf life of perishable fruits and vegetables, with particular emphasis on novel technologies to extend storage and shelf-life of fruits and vegetables. Our research also focuses on alternative management of postharvest diseases of horticultural produce.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
149

List any patents you have registered
0
4.1.8 Dr. Carol Hooi

<table>
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</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Nottingham University Business School</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Human resource management, organizational behaviour</td>
</tr>
<tr>
<td>Name</td>
<td>Associate Professor Dr. Carol Hooi</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Carol.Hooi@nottingham.edu.my">Carol.Hooi@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
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</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My research over the last few years has focused mainly on human resource management and organisational behaviour. My research topics centred around comparative human resource management policies in Malaysia and also those between Malaysia and Japan focusing on in-depth analysis of policies in recruitment, compensation, promotion and human resource development. Additionally, I have also researched on current global trends in human capital management to observe human capital management practices of the past and present. Other studies focused on organisational learning capability, organisational performance, and succession planning and talent management. For organisational behaviour, the current studies relate mainly to organisational justice, organisational citizenship behaviour, job satisfaction and leader-member exchange. Currently, I have a few projects running concurrently. One of the projects due to be completed at the end of the year focuses on best practices in professionalism in the financial services industry, specifically in remuneration and incentives.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**

>60

**List any patents you have registered**

1
4.1.9 Dr. Chin Chiew Foan

<table>
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<th>Institution</th>
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<tr>
<td>School/Department/Faculty</td>
<td>Biosciences</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Plant molecular genetics, plant tissue culture, crop improvement through molecular breeding</td>
</tr>
<tr>
<td>Name</td>
<td>Chin Chiew Foan</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Chiew-foan.chin@nottingham.edu.my">Chiew-foan.chin@nottingham.edu.my</a></td>
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<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Biosciences/People/chiew-foan.chin">http://www.nottingham.edu.my/Biosciences/People/chiew-foan.chin</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Plant molecular genetics is about making use of molecular biology tools to explore the genetics of plants in order to harness the positive products for human consumption. Some of the molecular biology tools that has been used in my research group involve

- proteomic analysis
- next generation sequencing
- generation of markers using various types of marker technology
- plant tissue culture and transformation

Since Malaysia is located in the center of origins for many tropical plant species, there are vast opportunities to tap the resources for wealth generation for the country. As such, my group also explore into using advance molecular biology tools for plant conservation purposes.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
>30

List any patents you have registered
1
4.1.10 Dr. Lim Chin Seong

<table>
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<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Department of Mechanical, Materials and Manufacturing, Faculty of Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Laser materials processing, Micro and nano fabrication techniques</td>
</tr>
<tr>
<td></td>
<td>Semiconductor manufacturing processes, Non-conventional advanced manufacturing</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Lim Chin Seong</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:chinseong.lim@nottingham.edu.my">chinseong.lim@nottingham.edu.my</a></td>
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<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Engineering/Departments/M3/People/chinseong.lim">http://www.nottingham.edu.my/Engineering/Departments/M3/People/chinseong.lim</a></td>
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</tbody>
</table>

Give a brief description of your research interests and/or expertise

My main research interest is in the area of laser-based micro/nano fabrication technology. I have been working on the development surface nanopatterning technique for nano-device fabrication and the fabrication & characterization of micro optics. Besides that, I also involved in the development of semiconductor processing techniques particularly in photolithography, etching and thin film coating technologies. I have vast hands on experiences on operation of various laser systems, semiconductor manufacturing processes and characterization methods.

List up to 10 of your most recent or most important papers, giving the full citation

3. N. R. Han, Z. C. Chen, C. S. Lim, B. Ng, and M. H. Hong, Broadband multi-layer terahertz metamaterials fabrication and characterization on flexible substrate. Optics Express,
4. C. S. Lim, M. H. Hong, Z. C. Chen, N. R. Han, B. Luk’yanchuk, and T. C. Chong, Hybrid metamaterial design and fabrication for terahertz resonance response enhancement, Optics Express, 2010.


How many publications, in total, have you published?

>20

List any patents you have registered

0
4.1.11  Professor Chong Mei Fong

<table>
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<th>Institution</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Department of Chemical and Environmental Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Bioenergy and wastewater technologies, membrane reactor</td>
</tr>
<tr>
<td>Name</td>
<td>Chong Mei Fong</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:MeiFong.Chong@nottingham.edu.my">MeiFong.Chong@nottingham.edu.my</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Professor Mei Fong, Chong specialises in membrane technology for high strength wastewater treatment, anaerobic and aerobic treatment systems, adsorption process for boron removal and membrane reactor for biodiesel production. Her works involve both modeling and experimental studies with the range from bench scale research to proof of concept by using prototypes. Currently, she is looking at the research in pilot plant scale which will eventually leads to patent development and commercialisation. Her projects are funded by the Malaysian government bodies, industries and research institutions such as Ministry of Science, Technology and Innovations (MOSTI), Federal Land Development Authority (FELDA) Foundation and Malaysian Palm Oil Board (MPOB).

**List up to 10 of your most recent or most important papers, giving the full citation**

2. Chong, M.F. and Denny Ng, K.S. (2012) Evaluation and Analysis of "Year 1 Assessment Week" in Promoting Transferable Skills among First Year Chemical Engineering Undergraduates, Education for Chemical Engineers, 8(1), e31-e39.


How many publications, in total, have you published?

>30

List any patents you have registered

0
**Give a brief description of your research interests and/or expertise**

Our research is concerned with the analysis and design of modern Computational Intelligence algorithms to solve various real-world problems:

A. Evolutionary Optimization: Many real-world optimization problems cannot be solved easily using classical methods. Our work focuses on developing cutting-edge evolutionary algorithms [5] to solve complex, real-world optimization problems in various sectors such as automotive [1].

B. Evolutionary Learning: A variety of real-world problems involve learning tasks such as regression and classification to game-plays. Our work focuses on rigorous analysis [2,3,6,7] to uncover new insights for design of evolutionary learning algorithms to solve learning problems such as those that involve situations of strategic decision-making [4,10] that are critical in real-world problems (e.g. economics).

C. Simulation and Modelling: Our complex computer simulations that involve populations of autonomous and adaptive agents have provided the means for in-depth studies to understand specific conditions that impact of real-world multi-agent systems [8,9] (e.g. economics).

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
27

List any patents you have registered
0
4.1.13 Dr. Chiang Choon Lai

<table>
<thead>
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<td>School/Department/Faculty</td>
<td>Foundation Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Drying, Wastewater treatment, Micro propulsion, Learning styles</td>
</tr>
<tr>
<td>Name</td>
<td>Chiang Choon Lai</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:cl.chiang@nottingham.edu.my">cl.chiang@nottingham.edu.my</a></td>
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<td><a href="http://www.nottingham.edu.my/Foundation-Programmes/Engineering/People/cl.chiang">http://www.nottingham.edu.my/Foundation-Programmes/Engineering/People/cl.chiang</a></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise

Drying is a method of food preservation that inhibits the growth of bacteria, yeasts, and mold through the removal of water. If you want to enhance the quality of processed food / bio-materials (e.g. maximise retention of bio-active ingredients such as vitamins, antioxidant, flavonoids, chemical compounds beneficial to health), then we can help.

List up to 10 of your most recent or most important papers, giving the full citation


**How many publications, in total, have you published?**

>10

**List any patents you have registered**

0
4.1.14 Dr. Chris Roadknight

<table>
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<tr>
<td>School/Department/Faculty</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Ensemble Learning, Anti-learning, Sensor networks, Bioinformatics, Neural Networks, Agent Based Simulation</td>
</tr>
<tr>
<td>Name</td>
<td>Chris Roadknight</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Chris.roadknight@nottingham.edu.my">Chris.roadknight@nottingham.edu.my</a></td>
</tr>
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</table>

**Give a brief description of your research interests and/or expertise**

I have a broad machine learning background and I am currently using this to develop class leading ensemble learning methodologies for synthetic and real-world datasets, these include medical datasets such as tumour survival metrics. I am interested in the merging of massively disparate AI techniques into one ensemble solution and verifying this by using transparency methods. I am also interested in the verification of agent based systems and developing systematic methods to enforce known statistics on such systems.

**List up to 10 of your most recent or most important papers, giving the full citation**

5. Roadknight, Chris, Uwe Aickelin, John Scholefield, and Lindy Durrant. "Ensemble learning of colorectal cancer survival rates." In Computational Intelligence and Virtual Environments for


How many publications, in total, have you published?
>60

List any patents you have registered
(WO/2006/092611) UNDERSEA SEISMIC SENSING SYSTEM AND METHOD
(WO/2002/073889) COMMUNICATIONS NETWORK
(WO/2005/125122) WIRELESS AD HOC NETWORK
4.1.15 Dr Chuen-Khee PEK

<table>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Nottingham University Business School</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Environmental valuation, Pricing of non-market goods and services, Chinese SMEs</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Chuen-Khee PEK</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:chuen.pek@nottingham.edu.my">chuen.pek@nottingham.edu.my</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

My main research interest is in the pricing of non-market goods and services, and externalities, working with the application of econometrics and environmental valuation methodologies like choice modeling and contingent valuation on environmental issues, such like solid waste management, climate change, food security and other green economics. I have also the interest to study the competitiveness and sustainability of Chinese SMEs.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
25

List any patents you have registered
0
4.1.16  Professor Claire O’Malley

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<tbody>
<tr>
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<td>Psychology</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Claire O’Malley</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:claire.omalley@nottingham.edu.my">claire.omalley@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Psychology/People/claire.omalley">http://www.nottingham.edu.my/Psychology/People/claire.omalley</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

My research in child development and learning has focused on the development of social interaction and communication skills, particularly skills in theory of mind and perspective taking. I have also carried out research on the impact of various collaborative learning interventions, with and without technology, on cognitive development and educational achievement. Domains have included literacy, mathematics and science, in formal and informal settings, with a wide range of learners (pre-school, primary, secondary and tertiary). My research on technology enhanced learning and human-computer interaction has focused on video-mediated communication, mobile and ubiquitous technology (i.e., sensor based), augmented and virtual reality and more recently on social media. I carry out studies of users in both laboratory and real world contexts, using a variety of quantitative (experiments, surveys, data analytics) and qualitative methods (interviews, observations). I have broad expertise in a variety of social science methods, and particular expertise in video analysis methods.

**List up to 10 of your most recent or most important papers, giving the full citation**

### 4.1.17 Professor Dominic C. Y. Foo

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Centre of Excellence for Green Technologies</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Process integration, process optimisation, waste recycling, energy planning.</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Dominic C. Y. Foo</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Dominic.Foo@nottingham.edu.my">Dominic.Foo@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/CEGT">www.nottingham.edu.my/CEGT</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

Ir. Dr. Dominic Foo is a Professor of Process Design and Integration at the University of Nottingham Malaysia Campus, and is the Founding Director for the Centre of Excellence for Green Technologies. He is a world leading researcher in process integration for resource conservation. He works with his 30 collaborators across various countries in the Asia, Europe, American and Africa on the following areas of work:

- Resource conservation (recovery of water, utility gases, energy)
- Production planning (facility planning, scheduling of production resources)
- Cleaner process design (with minimum waste and utilities)
- Energy planning (carbon footprint reduction, carbon capture and storage)

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
>90

List any patents you have registered
0
Dr. Md Enamul Hoque

Institution
University of Nottingham Malaysia Campus

School/Department/Faculty
Mechanical, Materials & Manufacturing Engineering

Main Research Area(s)
Rapid Prototyping Technology, Biomaterials, Tissue Engineering, Polymeric Composite Materials, Nanomaterials, Food Technology, Bioenergy

Name
Dr. Md Enamul Hoque

EMAIL
enamul.hoque@nottingham.edu.my

URL
http://www.nottingham.edu.my/Engineering/Departments/M3/People/enamul.hoque

Give a brief description of your research interests and/or expertise

I received my PhD in Mechanical Engineering (major in Bioengineering) from NUS, Singapore in 2007. Since then I have been intensively involved in numerous research projects that are collaborated locally and internationally. I have received 7 research grants from a number of funding bodies amounting to be a total of MYR 7,40,000. I have trained 1 postdoctoral research fellow, graduated 3 PhD students and currently supervising 5 PhD students in collaboration with some local as well as global academics. I have developed TWO research equipment in-house.

✓ Desktop Robot Based Rapid Prototyping Melt Extrusion System to Fabricate 3D Porous Scaffold
✓ Electrospinning System to Fabricate Nanofibre Scaffolds

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

>120

List any patents you have registered

Two patents are under processing

1) Malaysia – Patent Application No.: PI 2013002214
Title: Margarines/spreads fat blends with reduced saturated fatty acids content, textured with palm oil-based structural fat.
Inventors: Sivaruby Kanagaratnam (Malaysian Palm Oil Board), Andrew Spowage (University of Nottingham Malaysia Campus), Miskandar Mat Sahri (Malaysian Palm Oil Board), Md Enamul Haque (University of Nottingham Malaysia Campus)

2) Malaysia – Patent Application No.: PI 2013002213
Title: Margarines/spreads fat blends that are stable and spreadable between -15°C to 35°C, structured with palm oil-based structural fat.
Inventors: Sivaruby Kanagaratnam (Malaysian Palm Oil Board), Andrew Spowage (University of Nottingham Malaysia Campus), Miskandar Mat Sahri (Malaysian Palm Oil Board), Md Enamul Haque (University of Nottingham Malaysia Campus)
### 4.1.19 Dr. Ernesto Hernandez

<table>
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<tr>
<th>Institution</th>
<th>The University of Nottingham</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Chemical and Environmental Engineering/ Bioinspired Chemical Engineering Research Group</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Bioinspired chemical engineering; synthetic bioenvironments; evolution of enzymes and bioprocesses</td>
</tr>
<tr>
<td>Name</td>
<td>Ernesto Hernandez (Dr., MRSC, AMIChemE)</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:bierg@nottingham.edu.my">bierg@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.ernestohernandez.org/">http://www.ernestohernandez.org/</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

I aim at filling the gap between life sciences and chemical engineering, to create wealth and wellness for people in a sustainable and socially responsible way. In order to do this, I gather tools and techniques from: biotechnology, biorefineries, environmental microbiology, directed evolution, protein engineering, fermentation technology, biochemical engineering, bioreaction engineering, enzyme technology, biocatalysts, aquatic chemistry and chemical engineering.

We have delivered projects related to: directed evolution, bioprocessing of biomass for added-value chemicals (waste into wealth), biooil production from algae and yeast, bioprocess design for biorefineries, biological clean up, global warming reduction; molecular identification of biocatalysts; microbial enhanced oil recovery; waste water treatment and biogas production.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
7 peer-reviewed papers, 100 Weekly progress reports, 5 Quarterly reports and 1 Executive report for a global top-2 oil company in the UK. Plus 4 executive reports for a Knowledge Transfer Program (UK).

List any patents you have registered
0
**4.1.20  Professor Graham Kendall**

<table>
<thead>
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<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Operations Research, Scheduling, Heuristics, Meta-heuristics, hyper-heuristics, evolutionary computation</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Graham Kendall</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Graham.Kendall@nottingham.edu.my">Graham.Kendall@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.graham-kendall.com">http://www.graham-kendall.com</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

Operational Research (OR) is about making operations within a company more efficient. The normal process is to understand the problem, model it and then find the best way to attempt to solve that model.

If you ever say you want to minimise something (waste?), maximise something (profit?), schedule something etc. then OR can help. The areas we have experience in include (but, we can tackle many other areas).

- Logistics
- Transport, including vehicle routing
- Aircraft Scheduling
- Machine Scheduling
- Port Logistics
- Sports Scheduling
- Evolutionary Computing
- Heuristics, Meta-heuristics and Hyper-heuristics

In the work we do, we like to look at real world problems, model them and use any search methodology that we think is suitable to try and solve that model. This many include exact methods (such as CPLEX), but often uses heuristics, meta-heuristics and hyper-heuristics. We also use evolutionary computation, which are loosely modelled on Darwin’s principles of natural selection.
List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published? >200

List any patents you have registered
0
4.1.21 Dr. Hii Ching Lik

<table>
<thead>
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<th>University of Nottingham, Malaysia Campus</th>
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</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Department of Chemical and Environmental Engineering, Faculty of Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Food processing, drying and dehydration, heat and mass transfer modeling, cocoa and chocolates</td>
</tr>
<tr>
<td>Name</td>
<td>Assoc. Prof. Dr. Hii Ching Lik</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Ching-Lik.Hii@nottingham.edu.my">Ching-Lik.Hii@nottingham.edu.my</a></td>
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<td>URL</td>
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</table>

**Give a brief description of your research interests and/or expertise**

My current research area is in the preservation of bioactive compounds in food products using advance food processing methods. In the past, I have successfully developed a heat pump dryer that was able to preserve most of the polyphenols (a type of antioxidant) in the dried products. Currently, I am developing a novel zeolite adsorption dryer to process food products using dehumidified air with the aim to preserve bio-active compounds beneficial for human health. Another key area of my research is in cocoa and chocolate processing, where I have successfully developed mechanical dryers for cocoa drying and in the development of high polyphenols chocolates.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**

24 (journals)

**List any patents you have registered**

0
4.1.22 Dr Jee-Hou Ho

<table>
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<th>Institution</th>
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<tr>
<td>School/Department/Faculty</td>
<td>Mechanical, Materials and Manufacturing Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Mechatronics, Robotics, Nonlinear Dynamics, Gait Rehabilitation</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Jee-Hou Ho</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:JeeHou.Ho@nottingham.edu.my">JeeHou.Ho@nottingham.edu.my</a></td>
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<td><a href="http://www.nottingham.edu.my/Engineering/Departments/M3/People/jeehou.ho">http://www.nottingham.edu.my/Engineering/Departments/M3/People/jeehou.ho</a></td>
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Give a brief description of your research interests and/or expertise

Dr Ho’s primary research interests are in the area of mechatronics and robotics, in particular, application of nonlinear dynamics in solving real world problems. Rapid advancement in nonlinear techniques has facilitated studies in many multidisciplinary applications and they are not limited to machine dynamics. For example, fractal analysis has proven to reveal the complexity of brain dynamics in analysing Electroencephalography (EEG) time series. Some of our current projects involve:

- Dynamics of piezoelectric rain impact harvesting
- Development of wearable gait measurement system for stroke rehabilitation
- Development of robotic orthosis for stroke rehabilitation
- Modelling of morphological changes in gait rehabilitation
- Design of lightweight robotic manipulator
- Learning behavior in brain dynamics
- Human emotion EEG analysis

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?
35

List any patents you have registered
0
**4.1.23 Dr. Hon Loong Lam**

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</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Faculty of Engineering, Department of Chemical and Environmental Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Green Supply Chain, Biomass Utilisation, Process Optimisation</td>
</tr>
<tr>
<td>Name</td>
<td>Associate Professor Hon Loong Lam</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Honloong.lam@nottingham.edu.my">Honloong.lam@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Engineering/People/HonLoong.Lam">www.nottingham.edu.my/Engineering/People/HonLoong.Lam</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

To link up these green technologies from pre-treatment to process and delivery, a green supply chain development is a key point in this green belt. Green supply chain or sustainable network could be defined as the operational management method and optimization approach to reduce the environmental impact along the life cycle of the green product. My team focuses on the special focus must be given to the latest conservation of biomass (mass and energy) used in the process, the possibility of integrating green resources, the consideration of industrial symbiosis relationship and the network synthesis with multi objectives of environmental, technical, economic, safety, and social factors.

**List up to 10 of your most recent or most important papers, giving the full citation**

2. Ng. W.P.Q., Lim M. T., Mohamad Izhair S.M., Lam H.L., Yusup S., Overview on economics and technology development of rubber seed utilisation in Southeast Asia, Clean Technologies and Environmental policy, 2013, 34, 57-65


How many publications, in total, have you published?
> 30 journal papers
> 100 conference papers

List any patents you have registered
0
Give a brief description of your research interests and/or expertise

Dr. Iman is mainly working in the area of Computer Vision and Image Processing, especially in 3D reconstruction from 2D images. She is also familiar with general Pattern Recognition techniques and their applications in Computer Vision and Image Processing. She is interested in mathematically modeling Vision and Imaging problems and has intensive experience in 3D terrain reconstruction, 3D face reconstruction, 3D craniofacial data analysis, etc. Theoretical tools she has investigated include variational methods, optimization theory and algorithms, regularization methods, relaxation algorithms, fractal analysis, multi-scale analysis (e.g., wavelets), Markov random fields, B-Splines, Differential Geometry, Principal Component Analysis, and some typical Machine Learning techniques.

List up to 10 of your most recent or most important papers, giving the full citation

1. ASHRAF MAGHARI, IBRAHIM VENKAT, IMAN YI LIAO and BAHARI BELATON, 2014. Adaptive face modeling for reconstructing 3D face shapes from single 2D images IET Computer Vision. 1-14 (In Press.)
4. PAN ZHENG, BAHARI BELATON, IMAN YI LIAO and Z. A. RAJION, 2011. The gradient of the maximal curvature estimation for crest lines extraction In: Proceedings of the Second
international conference on Visual informatics: sustaining research and innovations (IVIC’11)/LNCS. Part I. 196-205

5. IMAN YI LIAO and MUNIR ZAMAN, 2010. Prior model evaluation from Null Space Compensation perspective with application to surface reconstruction from single images The Visual Computer. 26, 997-1005


**How many publications, in total, have you published?**

>30

**List any patents you have registered**

0
Give a brief description of your research interests and/or expertise

Corporate Governance failures are seen and understood as one of the core reasons for corporate collapses. Numerous researches were conducted in the past analyzing corporate governance failures and the associated impact on stock market prices and profitability. Governance improprieties have a bigger impact on corporate social responsibility as well as financial reporting activities. Related issues like ethics and the heightened role of forensic auditors are currently in the limelight. These related topics help us to identify ways to improve corporate governance in the country, followed by a bigger commitment to corporate social responsibility as well performance of organisations in terms of profitability and stakeholder values. Other related topics include providing ethics training and managers motivations to act ethically. Alternatives research also include developing risk management frameworks for ethical tax compliance and focusing attention on tax governance elements.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

34

List any patents you have registered

0
4.1.26 Dr. Julien Mayor

<table>
<thead>
<tr>
<th>Institution</th>
<th>The University of Nottingham Malaysia Campus</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Psychology, Faculty of Science</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Language acquisition, cognitive development, computational modeling, eye-tracking</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Julien Mayor</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Julien.mayor@nottingham.edu.my">Julien.mayor@nottingham.edu.my</a></td>
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**Give a brief description of your research interests and/or expertise**

Two-year old children can learn up to ten new words every day. While these amazing performances have been extensively described empirically, little is known in terms of their underlying neural mechanisms. Furthermore, the very large amount of lexical variability means that early diagnostic of language impairments and delays is often impossible, unless learning mechanisms are better understood.

My research aims at identifying such learning mechanisms involved when infants learn new words. To this end, I build computational models of cognitive development, I develop novel statistical analyses of language corpora and use a range of data-collection techniques such as pupillometry, eye-tracking and tablet-based experiments.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
~ 30

List any patents you have registered
0
### 4.1.27 Dr. Kalaimagal Ramakrishnan

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<td>School/Department/Faculty</td>
<td>Foundation in Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Knowledge Management System, Management Information System, Education</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Kalaimagal Ramakrishnan</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Kalaimagal.ramakrishnan@nottingham.edu.my">Kalaimagal.ramakrishnan@nottingham.edu.my</a></td>
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**Give a brief description of your research interests and/or expertise**

The areas that I have experience in as listed below:

- Knowledge Management
- Knowledge Management System
- Management Information System
- Mobile Learning
- Curriculum in Higher Learning Education

**Ph.D Topic:** USING WORK SYSTEM THEORY IN A KNOWLEDGE MANAGEMENT TOOL FOR CURRICULUM REVIEW PROCESS (University Of Malaya, 2013)

**List up to 10 of your most recent or most important papers, giving the full citation**

**CHAPTER IN BOOK**

2011

ACADEMIC JOURNALS

2012

2011

2010

PROCEEDING

2013
Developing Knowledge Management Tool in Higher Education Institutions using Work System Theory, IT infra 2013 International Conference, Malaysia
Poster Presentation, Developing Knowledge Management Tool using Work System Theory, IT infra 2013 International Conference, Malaysia

2012
Kalaimagal Ramakrishnan and Norizan Mohd Yasin. The Role of Knowledge Management System in Higher Education Institution. ICINT, India.

2011

How many publications, in total, have you published?
11

List any patents you have registered
0
4.1.28 Dr. Khiew Poi Sim

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<td>Faculty of Engineering</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Advanced Materials and Nanotechnology</td>
</tr>
<tr>
<td>Name</td>
<td>Assoc. Professor Dr. Khiew Poi Sim</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:PoiSim.Khiew@nottingham.edu.my">PoiSim.Khiew@nottingham.edu.my</a></td>
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<td>URL</td>
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</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

Prime research focus on advanced materials, nanoscience and nanotechnology advancement, especially on utilizing the nanostructures (graphene, semiconductor, ceramic and polymer composite) for charge storage, biosensing, photocatalysis, organic photovoltaic and microelectronic applications. The primary research interest lies in the areas of:

- Advanced nanomaterials (graphene, metal oxide, conducting polymer) synthesis using soft-chemistry technique
- Fabrication of electrochemical capacitor (supercapacitor) from carbon and nanocomposite
- Carbon-based electrochemical biosensing
- Nanoengineering of optically active semiconductor nanostructures for functional application in organic photovoltaic
- Development of magnetic nanocrystals and nanocomposites as photocatalyst for waste water treatment
- Fabrication of semiconductor nanomaterials for antimicrobial application
- Radiation physics and chemistry on grafting and co-polymerization
- Colloidal surfactant and lyotropic liquid crystal physical chemistry

**List up to 10 of your most recent or most important papers, giving the full citation**

1. Ejikeme Raphael Ezeigwe, Michelle T. T. Tan, Poi Sim Khiew, Chiu Wee Siong, One-step Green synthesis of graphene/ZnO nanocomposites for electrochemical capacitors, Ceramic International (2014), Accepted, In press


5. Wee Siong Chiu, Alireza Yaghoubi, Mei Yuen Chia, Noor Hamizah Khanis, Saadah Abdul Rahman, Poi Sim Khiew and Yu Iun Chueh, Self-assembly and secondary nucleation in ZnO nanostructures derived from a lipophilic precursor, Crystal Engineering Communication (2014), 16(27), 6003-6009

6. Kin Nyap Wong, Poi Sim Khiew, Dino Isa, Wee Siong Chiu, Facile synthesis of flower-like PbO as a precursor to form nanodendritic PbO2 for positive active material (PAM) of lead-acid electrochemical storage devices, Materials Letters (2014) 128, 97-100

7. Maxine Swee Li Yee, Poi Sim Khiew, Yuen Fen Tan, Yih Yih Kok, Kok Whye Cheong, Wee Siong Chiu, Potent Antifouling Silver-Polymer Nanocomposite Microspheres using Ion-Exchange Resin as Templating Matrix, Colloids and Surfaces A (2014) 457, 382-391


How many publications, in total, have you published?
> 60

List any patents you have registered
1
**4.1.29 Dr. Khoo Gaik Cheng**

<table>
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<tr>
<td>School/Department/Faculty</td>
<td>Modern Languages and Cultures</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Southeast Asian Cinema, Food and identity, citizenship and migration, gender, cultural politics</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Khoo Gaik Cheng</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Gaikcheng.khoo@nottingham.edu.my">Gaikcheng.khoo@nottingham.edu.my</a></td>
</tr>
<tr>
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<td></td>
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</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

Gaik Cheng Khoo teaches film and cultural studies but is interested in questions of belonging and the construction of cosmopolitan spaces that are enabled by food, film and social media. How does food and filmmaking create cosmopolitan spaces and ways of belonging as symbolised by mamak stalls and kopitiams? How do citizens and non-citizens create cosmopolitan solidarities in a globalizing society? Her research has mainly focused on independent filmmaking in Malaysia though her broad interests include identity, multiculturalism, cosmopolitanism and citizenship. Lately she is interested in food and heritage, for example focusing on the culinary links between Phuket and George Town, and new research on Penang hawker food as intangible cultural heritage.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
30 including refereed journal articles and book chapters and two books. Over 20 non-refereed articles mostly on film such as reviews, interviews, short fiction.

List any patents you have registered
0
4.1.30  Dr Kinya Hotta

Institution
University of Nottingham Malaysia Campus

School/Department/Faculty
School of Biosciences

Main Research Area(s)
- Metabolic engineering
- Synthetic biology
- Natural product biosynthesis
- Structural enzymology

Name
Associate Professor Kinya Hotta

EMAIL
Kinya.Hotta@nottingham.edu.my

URL
http://www.nottingham.edu.my/Biosciences/People/kinya.hotta

Give a brief description of your research interests and/or expertise

We are interested in understanding how chemicals are biosynthesized by various organisms, and applying the knowledge for sustainable production of valuable compounds, such as pharma-/nutraceutical agents and industrial chemicals, from renewable resources. Specifically, we pursue biochemical and structural characterizations of biosynthetic enzymes and engineering of metabolic pathways for synthetic biological applications.

Current projects include:

- Bio-production of industrially valuable chemicals in heterologous hosts, such as Escherichia coli, yeast, fungi and cyanobacteria, using renewable resources.
- Screening microorganisms and their genome sequences for identifying new and unique enzymes with properties useful for industrial and medicinal applications.
- Biochemical and structural investigations of enzymes involved in the biosynthesis of various metabolites for understanding their catalytic mechanisms and engineering their activities.
- Specific targets include biosynthesis/semi-synthesis of polyketides, nonribosomal peptides, terpenoids, flavonoids and fine/commodity chemicals (e.g., aromatic compounds, organic acids), as well as production of industrially useful proteins (enzymes like lipases and oxidoreductases, antibodies, sweet-tasting proteins).
List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

>200

List any patents you have registered

0
4.1.31 Ir. Prof. Law Chung Lim

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
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<tr>
<td>School/Department/Faculty</td>
<td>Department of Chemical and Environmental Engineering</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Food and herbs processing, Food and herbs preservation, Food quality, Food safety, retention of bio-active ingredients, Industrial drying, Dehydrated food, Diffusion, Scale-up, Fluidized bed, Chemical process safety, Safety management</td>
</tr>
<tr>
<td>Name</td>
<td>Ir. Prof. Law Chung Lim</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Chung-Lim.Law@nottingham.edu.my">Chung-Lim.Law@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Engineering/Departments/Chemenv/People/chung-lim.law">http://www.nottingham.edu.my/Engineering/Departments/Chemenv/People/chung-lim.law</a></td>
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</tbody>
</table>

Give a brief description of your research interests and/or expertise

Food and Bioproduct Processing is one of the research priorities in University of Nottingham Malaysia Campus. We focus on developing suitable processing technology for the processing of bio-origin products including foods, herbs, biotechnological products, agricultural products etc, while focusing on the retention of bio-active ingredients. In addition, we also focus on safety, energy, transport (mass transport, diffusion, mass transfer, energy transfer etc.) aspects.

Most of the projects that we are working on are industry-relevant. They are:

- Processing of herbs including Misai Kuching, Belalai Gajah, Roselle, focusing on maximizing energy efficiency of the processing machine, effectiveness in harnessing solar energy to assist processing, maximizing retention of bio-active ingredients and preserving colour of the processed products. (NRGS project, funded by MOA, 2014-2016)
- Processing of edible birdnests, focusing on minimizing colour change and maximizing retention of bio-active compounds. (ERGS project, funded by MOE, 2012-2014)
- Processing of crumb rubber, focusing on reducing energy consumption, improving machinery efficiency. (Industry research contract, 2014-2016)
- Preserving rice noodles without the usage of chemical preservatives, focusing on producing better appearance, prolonged shelf-life.
List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published? 95

List any patents you have registered 0
4.1.32 Dr. Lee Chan Wai

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Mechanical, Materials &amp; Manufacturing Engineering</td>
</tr>
<tr>
<td>Name</td>
<td>Lee Chan Wai</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Chan-Wai.Lee@nottingham.edu.my">Chan-Wai.Lee@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td>NA</td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My research is based around broadly helping engineering organization to work better, engage more effectively and strive for strong gains in different areas. My research is cross-discipline and broad-based with a firm focus on delivery.

**List up to 10 of your most recent or most important papers, giving the full citation**

1. Robert Gan, Chan Wai Lee & Andrew Spowage  
The Levels of PM Maturity PMI Global Congress, Melbourne Australia on 22-24 Feb 2010
2. C. W. Lee, R. Jamaluddin & C. M. M. Chin  
Viability of CCS: A broad-based assessment for Malaysia Renewable and Sustainable Energy Reviews Volume 15, Issue 8, October 2011, Pages 3608-3616
4. W. Y. Wong, K. Y. Tshai, and C. W. Lee  
5. W. Y. Wong, K. Y. Tshai, and C. W. Lee

6. Fathima Azra Rishafy, Chan Wai Lee, Whee Yen Wong


8. Whee Yen Wong, Chan Wai Lee, Kim Yeow Tshai

9. Whee Yen Wong, Chan Wai Lee, Kim Yeow Tshai
   Six sigma implementation in IT software product industry – A case study of SME in Malaysia: Six sigma methodology in IT project management International Journal of Computer Engineering & Technology, volume 4, issue 4, July-August 2013, pp 475-484, ISSN 0976-6367 (Print), ISSN 0976-6375 (Online)

10. N. C. Onyemeh, C. W. Lee
    Improving Quality of Operations via Industry-Specific Empowerment Antecedents: A Study of the Oil and Gas Industry

11. IEEM International Conference on Industrial Engineering and Engineering Management, IEEM14-P-0140, 9-12 December 2014, Malaysia

**How many publications, in total, have you published?**

>30

**List any patents you have registered**

0
### Dr. Mamunur Rashid

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
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</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Nottingham University Business School</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Islamic economics, entrepreneurship, corporate finance and business ethics</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Mamunur Rashid</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:mamunur.rashid@nottingham.edu.my">mamunur.rashid@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Business/People/Mamunur.Rashid">http://www.nottingham.edu.my/Business/People/Mamunur.Rashid</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

Islamic economics is a fast growing financial segment for the Muslims. The inventions in this segments attract investors, governments, consumers and academicians to unearth the compliance of the system to Islamic principles, the performance of various stakeholders, the difference between the conventional system with the Islamic system and finally on how to operational a sustainable operational of any firm or bank under an Islamic system. After 10 years of active teaching, research and consultancy services, I am still searching the relevance of the following topics/areas for companies/banks in many countries:

- A low cost Zakat-waqf-entrepreneurship model for countries where income inequality is very high
- Islamic capital market for small companies
- Alternative shareholding for Islamic firms
- Socially responsible Islamic banking
- One stop wealth management services
- Cross border challenges for Islamic banks
- Challenges of managing Investment Accounts in Islamic banks
- Global cost-return patterns of Islamic banks and way to reduce cost-benefit ratio

These are some of the challenges professionals are facing globally and we need efficient solutions before it is too late. These challenges fall broadly under corporation valuation, responsibility and growth perspective that can be applied to any organization anywhere.
List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?
>25

List any patents you have registered
0
### 4.1.34 Dr. Maniam Kaliannan

**Institution**
The University of Nottingham Malaysia Campus

**School/Department/Faculty**
School of Business

**Main Research Area(s)**

**Name**
Maniam Kaliannan

**EMAIL**
Maniam.kaliannan@nottingham.edu.my

**URL**

---

**Give a brief description of your research interests and/or expertise**

Human Resource Management and Talent Management research involves both the operational and strategic aspects of managing the human capital in achieving organizational performance and success. It covers wide range of area such as:

- Leadership
- Change management
- Staffing
- Developing
- Rewarding
- Motivation
- Retaining

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?

50

List any patents you have registered

0
### Dr Matthew Ashfold

<table>
<thead>
<tr>
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</thead>
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<td>School/Department/Faculty</td>
<td>Biosciences</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Atmospheric science</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Matthew Ashfold</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Matthew.Ashfold@nottingham.edu.my">Matthew.Ashfold@nottingham.edu.my</a></td>
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<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Biosciences/People/matthew.ashfold">http://www.nottingham.edu.my/Biosciences/People/matthew.ashfold</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

I study the behaviour of the atmosphere using a combination of numerical models and field measurements. My focus is on the atmosphere of Southeast Asia, which is influenced by a unique mixture of ocean and island processes, by particularly vigorous vertical mixing of the atmosphere by thunderstorms, and by a cocktail of trace gases which are introduced by expanding human activity and by the various types of vegetation (both natural or agricultural). I am interested in all of these influences, and have recently investigated emissions of trace gases from the oceans in Southeast Asia and the subsequent transport of such gases from near the surface towards the upper atmosphere. I am also currently studying the chemical properties of the interface between the tropical troposphere and stratosphere, and how atmospheric pollution may be transported from temperate East Asia towards Malaysia in the tropics.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?

~10

List any patents you have registered

0
Give a brief description of your research interests and/or expertise

The goal of my research project is to address the therapeutic potential of several phytochemicals in preventing CVD. More specifically, we want to investigate the molecular mechanisms of several promising natural compounds in inducing adipogenesis, insulin response, autophagy, and apoptosis. We have recently shown that inhibition of certain lipid metabolites increases autophagic property, inhibits apoptosis, and prevents accumulation of lipid droplets in vitro. These molecular events collectively can help to prevent fatty liver disease (NAFLD) and its advanced form (Liver Cirrhosis/Hepatic Cancer). We are using both in vitro and in vivo models for our research projects. The research project will pursue the following areas:

- Cell cycle, Cell proliferation, and Apoptosis.
- Insulin sensitivity and pro-anabolic pathways
- Autophagy to prevent hepatic steatosis
- Adipogenesis and lipid metabolism

List up to 10 of your most recent or most important papers, giving the full citation

   Citation: 4
Citation: 6

Citation: 96

Citation: 54

Citation: 31

Citation: 16

Citation: 5

Citation: 41

Citation: 71

Citation: 3

How many publications, in total, have you published?
20

List any patents you have registered
### 4.1.37 Dr. Nafis Alam

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<tbody>
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<td>School/Department/Faculty</td>
<td>Nottingham University Business School</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Islamic Finance, Corporate finance, Banking regulation, Capital market and portfolio, Emerging markets finance</td>
</tr>
<tr>
<td>Name</td>
<td>Associate Professor NAFIS ALAM</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:nafis.alam@nottingham.edu.my">nafis.alam@nottingham.edu.my</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Islamic finance has emerged as alternative finance for the global economy and there are lots of issues which need to address for the further development of the sector. I am interested in looking at Islamic banking and finance areas from quantitative research perspective for better policy implications for the sector. Using data from the dual banking countries, research are focused on banking regulation, banking efficiencies, risk taking behavior studies. Apart from Dual banking economy I am also interested in behavior finance, capital market, portfolio risk and return research domain.

Using Islamic philanthropy and trust data I am also interested in studying its impact on societal well-being.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**

60

**List any patents you have registered**

0
### 4.1.38 Dr Nashiru Billa

<table>
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<tr>
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<th>University of Nottingham, Malaysia Campus</th>
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</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Nanoparticulate Drug Delivery</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Nashiru Billa</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Nashiru.Billa@nottingham.edu.my">Nashiru.Billa@nottingham.edu.my</a></td>
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<td><a href="http://www.nottingham.edu.my/Pharmacy/Research/Index.aspx">http://www.nottingham.edu.my/Pharmacy/Research/Index.aspx</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

My main research interest lies in improving the oral bioavailability of poorly absorbed drugs through nano/micro-particulate drug delivery and gastrointestinal transit monitoring. A significant amount of my work goes in characterization of fabricated dosage forms and performing pharmacokinetic studies on animal models.

**List up to 10 of your most recent or most important papers, giving the full citation**

5. Nadine Nograles, Syahril Abdullah, Mariana Nor Shamsudin, Nashiru Billa,5 and Rozita Rosli, Formation and characterization of pDNA-loaded alginate microspheres for oral

How many publications, in total, have you published?
25

List any patents you have registered
0
### 4.1.39 Dr Ong Sze Pheng

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
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</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Chemical &amp; Environmental Engineering/ Faculty of Engineering</td>
</tr>
</tbody>
</table>
| Main Research Area(s) | - Food processing & dehydration technology  
- Plant & food microstructure engineering  
- Phytochemical extraction and purification  
- Natural antioxidants processing  
- Modelling & simulation (food product quality) |
| Name | Dr Ong Sze Pheng |
| EMAIL | Sze-pehng.ong@nottingham.edu.my |
| URL | http://www.nottingham.edu.my/Engineering/Departments/Chemenv/People/sze-pheng.ong |

**Give a brief description of your research interests and/or expertise**

Food security and nutrition is a complex sustainable development issue linked to health through malnutrition. Food security does not end at the farm gate but there is more to ensuring food security than simply growing more food. Our main research interest is to develop new food products (from raw farm materials ranging from fruits and vegetables to herbs) for health benefits and food diversification. We also keen in developing sustainable and green drying and food processing technologies in preserving foods as naturally as possible without compromising the delicacy and nutrition. In addition, our research areas also encompass the natural phytochemicals and antioxidants processing as well as sensory evaluation, microstructure assessment and predictive modeling development.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
26

List any patents you have registered
0
4.1.40 Dr. Pan Yan

<table>
<thead>
<tr>
<th>Institution</th>
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</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Biomedical Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Drug-drug/herb interaction, pharmacokinetics, pharmacogenetics</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Pan Yan</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Pan.Yan@nottingham.edu.my">Pan.Yan@nottingham.edu.my</a></td>
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<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Biomedsci/People/pan.yan">http://www.nottingham.edu.my/Biomedsci/People/pan.yan</a></td>
</tr>
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</table>

**Give a brief description of your research interests and/or expertise**

Cytochrome P450 (CYP) enzymes are a superfamily of mono-oxygenases responsible for metabolising a wide spectrum of xenobiotics as well as endogenous compounds. The hydrophilicity of the metabolite is usually increased after being oxidised by CYP, which facilitates the elimination of foreign compounds from human body. However, the activities of CYPs can be inhibited or induced by various types of chemicals. As a result, drugs or food have potential to decrease or increase the elimination of co-administered drugs, leading to adverse drug reactions or treatment failures.

Currently I am interested to investigate the modulatory effects of herbs on the activities of several important human CYPs by *in vitro* evaluation. I am also involved in investigating the activities of CYP variants since CYPs exhibit polymorphisms. Individuals carrying polymorphic genes are not able to metabolise a certain group of drugs, and they are more prone to adverse drug reactions.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?

14

List any patents you have registered

0
4.1.41 Dr. Rasyad Parinduri

<table>
<thead>
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<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Nottingham University Business School</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Industrial economics, development economics, impact evaluation, policy analysis</td>
</tr>
<tr>
<td>Name</td>
<td>Rasyad Parinduri</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:rasyad.parinduri@nottingham.edu.my">rasyad.parinduri@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://myeconpapers.blogspot.com/">http://myeconpapers.blogspot.com/</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

I do research on industrial economics (the economics firms and competition) and development economics (the economics of how countries develop). I examine how policies and market changes in developing countries affect development, competition, labour outcomes, and trade.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**

14.

**List any patents you have registered**

0
**4.1.42 Dr. Sandy Loh Hwei San**

<table>
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<th>Institution</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Biosciences</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Plant Molecular Pharming and Drug Discovery</td>
</tr>
<tr>
<td>Name</td>
<td>Sandy Loh Hwei San</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Sandy.Loh@nottingham.edu.my">Sandy.Loh@nottingham.edu.my</a></td>
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</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My research interests and expertise:

(i) Plants offer practical, biochemical, economic and safety advantages as compared with conventional production systems signifying Plant Molecular Pharming an exceptional platform for producing safer and more affordable modern medicines to meet global demand. The key focus falls within the areas of vaccines and therapeutic proteins development in plant system for prevention and treatment of significant human and animal diseases.

(ii) Rise of multidrug resistances in many diseases has urged continual efforts to discover novel molecules and treatment regimens. Particular focus falls on Drug Discovery from natural resources to combat human and animal bacterial and viral diseases as well as cancers.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
~90 in total (25 journals)

List any patents you have registered
0
4.1.43 Dr. Shafi Mohammad Tareq

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Bioscience</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Environmental pollution, Biogeochemistry and climate change</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Shafi Mohammad Tareq</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Shafi.Tareq@nottingham.edu.my">Shafi.Tareq@nottingham.edu.my</a></td>
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</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

- Arsenic mobilization in sedimentary environments of the Ganges-Meghna-Brahmaputra river Basins and Nepalese Terai and health effects as well as mitigation measure.
- Characteristics and dynamic of Industrial pollutants and its impact on freshwater ecosystem.
- Treatment and recycling (as irrigation water) of industrial effluent.
- Interaction of dissolved organic matter with arsenic and other trace metals in groundwater and freshwater ecosystem.
- Applications of isotope and biomarker (lignin, hydrocarbons and carbohydrates) signatures in sedimentary organic matter for deciphering past vegetation-climate relationships.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
>50, Journal(40), Book Chapter (7) and Conference (18)

List any patents you have registered
0
**Give a brief description of your research interests and/or expertise**

The current world energy crisis and global warming have yielded an ever desperate search for sustainable green energy sources. Microalgae present a potential biochemical/bioenergy source of both renewable and sustainable qualities. Recently, we are extracting biofuel, bioenergies as well as bioactive compound (DHA, color pigment, etc) from microalgae.

Polyhydroxyalkanoates (PHA) are biodegradable polymer produced by bacteria which are of interest as a sustainable alternative to petrochemical derived plastics, however, high production and recovery cost of PHA have significantly limited its commercial value. Extractive bioconversion via Aqueous Two-Phase System (ATPS) is the most viable solution since it integrates upstream PHA production and downstream extraction and isolation.

Aqueous two-phase flotation (ATPF) is a novel technique which integrates the principles of ATPS and mass transfer mode of solvent sublation for the separation and purification of biological materials. Our research is dealing with the bioproduct recovery and bioseparation engineering using ATPF applications and a comparative study between ATPF and other conventional methods in.
List up to 10 of your most recent or most important papers, giving the full citation


7. Extractive bioconversion of cyclodextrins by Bacillus cereus cyclodextrin glycosyltransferase in aqueous two-phase system. Hui Suan Ng, Chien Wei Ooi, Mohd Noriznan Mokhtar, Pau Loke Show, Arbakariya Ariff, Joo Shun Tan, Eng-Poh Ng, Tau Chuan Ling. *Bioresource technology* 142, 723-726, 2013 (IF: 5.04)


How many publications, in total, have you published?

>15

List any patents you have registered

0
4.1.45  Professor Sivakumar Manickam

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<tr>
<th>Institution</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Chemical and Environmental / Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Nanomaterials, Nanopharmaceuticals, Water/wastewater treatment, Process Engineering and Development, Ultrasound, Sonochemistry, Hydrodynamic cavitation</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Sivakumar Manickam</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Sivakumar.Manickam@nottingham.edu.my">Sivakumar.Manickam@nottingham.edu.my</a></td>
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<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Engineering/Departments/Chemenv/People/sivakumar.manickam">http://www.nottingham.edu.my/Engineering/Departments/Chemenv/People/sivakumar.manickam</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

We focus on developing the lab recipe and translating the same in the pilot plant and production scale. We employ energy-intensive cavitation technology that displays significant promise and a feasible tool in the generation of Nanomaterials and in other technological applications. In this, the reactions are carried out at milder conditions and thus fruitful for the development of chemicals and pharmaceutical formulations. This cavitation technology is highly energy-efficient as it consumes only a fraction of the energy as compared to the demand from conventional systems. We have a full-fledged Ultrasound and Hydrodynamic Cavitation laboratory at UNMC. Owing to the potential of this cavitation technology MoU’s have already initiated with industries to commercialise this technology for the generation of nanomaterials, biodiesel and wastewater treatment. Our research contribution has been recognised worldwide. We are also in the development of nanobiosensor for the early detection of diseases.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
>150

List any patents you have registered
0
4.1.46 Professor Stephen Doughty

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<tr>
<td>School/Department/Faculty</td>
<td>Pharmacy</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Computer-Aided Drug Design and Molecular Modelling of protein structure and dynamics.</td>
</tr>
<tr>
<td>Name</td>
<td>Prof Stephen Doughty</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Stephen.doughty@nottingham.edu.my">Stephen.doughty@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.ac.uk/pharmacy/people/stephen.doughty">http://www.nottingham.ac.uk/pharmacy/people/stephen.doughty</a></td>
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</table>

Give a brief description of your research interests and/or expertise

Research expertise gained over the last 20 years has been in the field of molecular modelling and computer-aided drug design. Particular interests are modelling membrane proteins, GPCRs, ion channels and anti-cancer drug design. Projects include drug candidate design and optimisation in areas such as stroke and anti-cancer drug design. Techniques employed include homology modelling, novel mixed QM/MM hybrid approaches, docking, QSAR, de novo design, library screening, etc. Novel techniques in development include flexible docking strategies.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

>40

List any patents you have registered

0
Dr. Suzanne McGowan

Institution
University of Nottingham Malaysia Campus

School/Department/Faculty
Geography

Main Research Area(s)
Palaeolimnology, lake ecology, chlorophyll & carotenoid biomarkers, diatoms, algal ecology.

Name
Suzanne McGowan

EMAIL
Suzanne.mcgowan@nottingham.edu.my

URL

Give a brief description of your research interests and/or expertise
Suzanne McGowan’s research integrates aquatic ecology and palaeolimnology with specific expertise in analysis of chlorophyll and carotenoid pigments. Shallow lake ecology has been a continuing theme of her research which has examined the linkages between nutrients, hydrology and ecosystem structure in shallow systems in the UK, Denmark, North American Prairies and the Canadian subarctic using limnological surveys and palaeolimnological techniques. Underlying this is a more general interest in cultural impacts on lakes. Recent work is investigating eutrophication and acidification in lakes of the Windermere (UK) catchment to inform management strategies, the impacts of atmospheric nitrogen deposition and terrestrial carbon flux on the ecology of lakes in West Greenland, and evidence for recent eutrophication in Lake Baikal using silicon isotopes.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?
>40

List any patents you have registered
0
4.1.48 Dr. Tapan Kumar Nath

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Nottingham Malaysia Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Biosciences</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Community-based forest management, Agroforestry, Carbon sequestration, Climate change, Tourism, Livelihood analysis</td>
</tr>
<tr>
<td>Name</td>
<td>Tapan Kumar Nath</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Tapan.Nath@nottingham.edu.my">Tapan.Nath@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Biosciences/People/tapan.nath">http://www.nottingham.edu.my/Biosciences/People/tapan.nath</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

Community-based forest management (CBFM) has been successful in conserving tropical forest biodiversity as well as in combating rapid climate change. At the same time the CBFM provides livelihood support to billions of forest-dependent people. Within CBFM agroforestry, a sustainable and multiple land use practice, is being promoted as a means of sustainable agricultural intensification throughout the world. Our research focuses on investigating effectiveness of CBFM to conserve tropical forest biodiversity and how to incorporate CBFM into climate change policy. The areas where we work in include:

- Community-based forest management
- Social capital and forest governance
- Forest structure, biomass and carbon sequestration
- Forest carbon financing
- Agroforestry and indigenous farming knowledge
- Protected area and ecotourism
- Sustainable livelihood analysis

In our research we use both social and ecological methodologies to find out the socio-ecological interactions of the forest system.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?

>50

List any patents you have registered

0
Give a brief description of your research interests and/or expertise

Casimir effect is a quantum effect due to the vacuum fluctuations of quantum fields in the presence of external conditions or boundaries. It can give rise to a force between any two objects. In the nano realm, this force is quite significant and may lead to undesirable damage to the functionality of nano devices. We use various mathematical machineries to compute the Casimir force between two objects and study the asymptotic behaviors beyond the proximity force approximation.

Another of my research interest is the quantum gravity of Riemann surfaces. We construct the Liouville action functional for Riemann surfaces which plays an important role in non-critical string theory. We also compute the quantum Liouville action and the corresponding energy-momentum tensor. This in turn will imply some nontrivial geometry of the moduli spaces of Riemann surfaces.

In number theory, I am interested in studying the analytic and algebraic properties of zeta functions, such as their analytic continuations, their special values, functional equations and the asymptotic behaviors. This in turn has wide applications in physics.

List up to 10 of your most recent or most important papers, giving the full citation

3. L. P. Teo, “Casimir interaction between spheres in (D+1)-dimensional Minkowski spacetime”, JHEP 05 (2014), 016.

How many publications, in total, have you published?
>70

List any patents you have registered
0
4.1.50 Dr. Then Sue-Mian

Institution | University of Nottingham Malaysia Campus
---|---
School/Department/Faculty | Biomedical Science

**Main Research Area(s)**

1. Basic Neuroscience: Oxidative stress and tocotrienol signaling in neurons
2. Neurodegenerative diseases: safety and efficacy of neural stem cell transplantation as therapeutics for Alzheimer’s disease
3. Pharmacogenomics: Development of a rapid protocol for detection of HLA-B*1502 allele in epileptic patients to prevent carbamazepine-induced Steven-Johnson syndrome (SJS)
4. Gravitational and Space Biology of Eukaryotic Cells and C elegans

**Name** | THEN SUE-MIAN
---|---
**EMAIL** | then.sue-mian@nottingham.edu.my
**URL** | 

**Give a brief description of your research interests and/or expertise**

I am interested to elucidate the mechanism of action of gamma-tocotrienol (a vitamin E isomer) acting as inhibitor to the proliferation of neuroblastoma and subsequently initiating cell death. Besides vitamin E, she was involved in screening of cytotoxicity and neuroprotective potentials of Chlorella vulgaris (CV), Momordica charantia (MC) and Piper betle (PB). Besides looking at natural products as potential therapeutics in neuronal cancers, I am also interested in understanding the factors affecting neurodegenerative diseases, such as Alzheimer’s disease.

Another research area that I am involved is pharmacogenetics, I am currently developing potential clinical diagnostic tools to screen for HLA-B*1502 and HLA-B*5801 gene to prevent drug-induced hypersensitivity.

Previously I was involved in the National Angkasawan Project in 2007, preparing and analysing the experimental data from the cancer cells and a model organism, C. elegans that was send to the International Space Station (ISS). I’m still involved in the follow-up of the experiment, but this time using Random Positioning Machine (RPM) to simulated microgravity environment.
List up to 10 of your most recent or most important papers, giving the full citation


9. Sue Mian Then, Gapor Mat Top, Wan Zurinah Wan Ngah, Musalmah Mazlan, 2010 Comparison of the effects of alpha-tocopherol dan gamma-tocotrienol against oxidative stress in two different neuronal cultures Sains Malaysiana 39 (1): 145-156 [Impact Factor: 0.268]


How many publications, in total, have you published?
17

List any patents you have registered
1
4.1.51 Dr. Tiong Timm Joyce

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<tr>
<td>School/Department/Faculty</td>
<td>Chemical and Environmental Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Ultrasonics, Sonochemistry, dental equipment optimization, Acoustic Simulation, Image processing for power ultrasound, advanced materials synthesis</td>
</tr>
<tr>
<td>Name</td>
<td>Tiong Timm Joyce</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:joyce.tiong@nottingham.edu.my">joyce.tiong@nottingham.edu.my</a></td>
</tr>
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<td>URL</td>
<td><a href="http://www.nottingham.ac.uk/engineering/departments/chemenv/people/joyce.tiong">http://www.nottingham.ac.uk/engineering/departments/chemenv/people/joyce.tiong</a></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise

Power ultrasonics is the ultrasound at lower frequencies, ranging from 20 kHz up to 1-2 MHz. It is widely used in welding, cleaning, wastewater treatments, drug encapsulation and so on. Our work focuses on studying the chemistry that relates to ultrasound, termed sonochemistry. There are a few specific areas of on-going research in sonochemistry, namely:

1. Ultrasonic cleaning from lab to pilot scale
2. Dental equipment optimization (for cleaning)
3. Microbubble encapsulation for potential drug delivery
4. Acoustic pressure simulation
5. Image processing techniques to enhance mapping of sonochemical activities
6. Sonochemical enhancement in synthesizing advanced materials

We are also interested in applying sonochemistry (both experimentally and via computation modelling) in other applications in order to accelerate and enhance chemical and physical reactions.

List up to 10 of your most recent or most important papers, giving the full citation

during the treatment of palm oil mill effluent (POME) using pilot scale triple frequency ultrasound cavitation reactor, Ultrasonics Sonochemistry 21 (2014) 1519-1526.


How many publications, in total, have you published?
6

List any patents you have registered
0
Dr Ting Kang Nee

<table>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Biomedical Sciences</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Drug discovery; pharmacology of smooth muscle including respiratory and vascular diseases; drug safety; cancer education</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Ting Kang Nee</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Kang-nee.ting@nottingham.edu.my">Kang-nee.ting@nottingham.edu.my</a></td>
</tr>
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<td><a href="http://www.nottingham.edu.my/Biomedsci/People/kang-nee.ting">http://www.nottingham.edu.my/Biomedsci/People/kang-nee.ting</a></td>
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</table>

Give a brief description of your research interests and/or expertise

My current research activities encompass drug discovery and drug safety (pharmacovigilance). We develop biological assays for therapeutic applications to test the efficacy and potency of new alkaloids compounds derived from tropical plants in Malaysia. My interests include cytotoxic effects of these natural compounds on bacteria and cancer cells and their effects on the smooth muscle tissues of blood vessels and trachea. We have ongoing projects investigating the effects of plant metabolites on reversing the antibiotic resistant of methicillin resistant Staphylococcus aureus (MRSA). At the other end of the spectrum, I am also interested in improving safe use of medicine through detection of adverse drug reactions. In particular, we have just completed a project studying the possible interaction between antimalarials and amino acids in patients and how this interaction may increase the risk of adverse events.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?
24 full manuscripts

List any patents you have registered
0
4.1.53  Professor Tony Bush

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
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<tr>
<td>Main Research Area(s)</td>
<td>School leadership, instructional leadership, leadership preparation and development, leadership theory, international and comparative leadership</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Tony Bush</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Tony.bush@nottingham.edu.my">Tony.bush@nottingham.edu.my</a></td>
</tr>
<tr>
<td>URL</td>
<td>N/A</td>
</tr>
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</table>

**Give a brief description of your research interests and/or expertise**

School leadership research relates to the activities of school principals and other senior staff in managing and leading schools. I have specialist interests in leadership theory, international and comparative research, leadership preparation and development, and instructional leadership.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**

>100

**List any patents you have registered**

0
4.1.54  Dr. Tuong-Thuy Vu

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<tr>
<td>Main Research Area(s)</td>
<td>Geospatial Intelligence, Open-Source Geospatial Development, Big Data Analytics, Geospatial Applications to Urban Environment, Agriculture and Disaster Management</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Tuong-Thuy Vu</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Tuongthuy.Vu@nottingham.edu.my">Tuongthuy.Vu@nottingham.edu.my</a></td>
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<td>URL</td>
<td><a href="http://www.nottingham.ac.uk/geography/people/tuongthuy.vu">http://www.nottingham.ac.uk/geography/people/tuongthuy.vu</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Geospatial Science is a science behind all technologies to capture, manage, analysis and visualization of location-based data and context around the location. My research works focus on the computational aspect of geospatial science and promoting the uses of Open-Source Geospatial Technologies in education, training and research. Currently, my research groups are working on:

- Machine-learning for multi-source remote sensing data analysis
- High-performance computing and cloud-based remote sensing processing services
- UAV system for agricultural researches
- Crowd-sourcing data quality assessment framework
- Multi-temporal remote sensing for urban growth monitoring and disaster recovery.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**

>50

**List any patents you have registered**

0
**4.1.55 Dr Yuh-Fen, Pung**

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<thead>
<tr>
<th>Institution</th>
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<td>School/Department/Faculty</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Mitochondrial bioenergetics and oxidative stress; Obesity and diabetes; Hypertension; Vascular biology</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Yuh-Fen, Pung</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:YuhFen.Pung@nottingham.edu.my">YuhFen.Pung@nottingham.edu.my</a></td>
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<td>URL</td>
<td><a href="http://www.nottingham.edu.my/Biomedsci/People/yuhfen.pung">http://www.nottingham.edu.my/Biomedsci/People/yuhfen.pung</a></td>
</tr>
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</table>

**Give a brief description of your research interests and/or expertise**

Our myocardium relies on mitochondrial aerobic metabolism. A byproduct of mitochondrial bioenergetics activity is the generation of reactive oxygen species (ROS). ROS is normally neutralized by endogenous antioxidants. However, if there is an imbalance between the mitochondrial prooxidant generation and antioxidant defense, mitochondrial oxidative stress may ensue. Chronic increases in myocardial oxidative stress can lead to bioenergetics deficiency. This deficiency will contribute to functional failure in the myocardium and vasculature if left untreated.

The main focus of the laboratory is to understand the role(s) of mitochondrial bioenergetics and oxidative stress in cardiovascular pathophysiology. Few potential research projects have been identified:

1) ISGylation in atherosclerosis development
2) Clinical biomarkers discovery (hypertension / heart disease)
3) Drug discovery (hypertension / obesity and diabetes)

All the research projects will involve the use of either clinical samples or in vivo animal models coupled with in vitro cell culture work to identify the mechanism involved.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
16 (15 ISI cited)

List any patents you have registered
1. Novel Snake Toxin BRC/P/02363/05/US
2. Therapeutic Uses of Beta-antagonist BRC/P/04417/01/PCT
## 4.2 Monash University Malaysia

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Dr Adeline Ting Su Yien</td>
<td>Dr Meng Nan, Chong</td>
</tr>
<tr>
<td>Dr Ai Kah, Soh</td>
<td>Professor Nathorn Chaiyakunapruk</td>
</tr>
<tr>
<td>Dr. Anton V. Dolzhenko</td>
<td>Dr. Ooi Ean Hin</td>
</tr>
<tr>
<td>Dr. Babak Salamatinia</td>
<td>Professor Pervaiz K Ahmed</td>
</tr>
<tr>
<td>Dr. Catherine Yule</td>
<td>Dr. Poh Phaik Eong</td>
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<tr>
<td>Dr Chew Esyin</td>
<td>Dr. Pooria Pasbakhsh</td>
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<tr>
<td>Professor Chow Sek Chuen</td>
<td>Dr. R. Nagasundara Ramanan</td>
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<tr>
<td>Dr. David James Young</td>
<td>Professor S. G. Ponnambalam</td>
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<td>Dr. David Wu</td>
<td>Dr. Sadequr Rahman</td>
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<tr>
<td>Professor Eduard Bomhoff</td>
<td>Dr. Santha Vaithilingam</td>
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<tr>
<td>Professor Ferdinand A.K. Gul</td>
<td>Dr. Satoshi Ogawa</td>
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<tr>
<td>Professor Gamini Herath</td>
<td>Dr. Sharifah Syed Hassan</td>
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<tr>
<td>Dr. Grace Lee Hooi Yean</td>
<td>Dr. Shogo Moriya</td>
</tr>
<tr>
<td>Professor Iain L Densten</td>
<td>Dr. Siow Lee Fong</td>
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<tr>
<td>Professor Ishwar Parhar</td>
<td>Professor . Sunil K. Lal</td>
</tr>
<tr>
<td>Dr. Jane Tong</td>
<td>Dr. Tam Cai Lian</td>
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<tr>
<td>Professor Jeyapalan Kasipillai</td>
<td>Professor Tey Beng Ti</td>
</tr>
<tr>
<td>Professor Joshua Li</td>
<td>Dr. Tomoko Soga</td>
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<tr>
<td>Professor Kenneth Lee</td>
<td>Dr. Uma Devi Palanisamy</td>
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<tr>
<td>Dr. Keshab Shrestha</td>
<td>Dr. Varghese Swamy</td>
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<tr>
<td>Dr. Kuang Ye Chow</td>
<td>Dr. Wang, Xin</td>
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<td>Dr. Mahendhiran Nair</td>
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<td>Dr. Marco Buente</td>
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<tr>
<td>Dr. Maude E. Phipps</td>
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<tr>
<td>Dr. Md. Ezharul Hoque Chowdhury</td>
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<td>Dr. Melanie Ooi</td>
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4.2.1 Dr Adeline Ting Su Yien

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<td>School/Department/Faculty</td>
<td>School of Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Applied microbiology</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Adeline Ting Su Yien (Senior Lecturer)</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Adeline.ting@monash.edu">Adeline.ting@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.sci.monash.edu.my/staff/Dr-Ting-Su-Yien-Adeline.html">http://www.sci.monash.edu.my/staff/Dr-Ting-Su-Yien-Adeline.html</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

I explore and harness various bacteria and fungi (with special interest on endophytes) for use as biocontrol or bioremediative agents. Applications include control of plant diseases, toxic metal and dye removal, hydrocarbon degradation and compost management. I am also interested in sourcing compounds and derivatives (enzymes, metabolites) from these microbes for various uses.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
A total of 94 publications with 37 articles for journals and 57 conference outputs (proceedings, abstracts).

List any patents you have registered
No registered patents.
**4.2.2 Dr Ai Kah, Soh**

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<td>School/Department/Faculty</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Constitutive theory and toughening mechanisms of advanced materials; Micro/nano mechanics of deformation and fracture; Electromagnetic solid mechanics; Multi-scale modelling</td>
</tr>
<tr>
<td>Name</td>
<td>Ai Kah ,Soh</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:soh.ai.kah@monash.edu">soh.ai.kah@monash.edu</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

I have worked on “phase field simulations of advanced materials including ferroelectric/ferromagnetic and multiferroic materials” for more than 15 years. Since 1999, I have obtained 11 competitive research funds as Principal Investigator (PI) to carry out research in the said area, and the focus was on micro-mechanics of ferroelectric/ferromagnetic materials in the first 3 years, and later elevated to nano-mechanics of functional materials. In recent years, one of my major research interests is in searching of new materials for energy storage.

**List up to 10 of your most recent or most important papers, giving the full citation**

7. Hong, L, Soh, AK, Du, QG, Li, JY, Interaction of O vacancies and domain structures in single crystal BaTi\textsubscript{3}O\textsubscript{3}: Two-dimensional ferroelectric model, PHYSICAL REVIEW B, 77(9), Article Number: 094104, 2008.


**How many publications, in total, have you published?**

About 250 refereed journal papers

**List any patents you have registered**

N.A.
4.2.3 Dr. Anton V. Dolzhenko

<table>
<thead>
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<td>School/Department/Faculty</td>
<td>School of Pharmacy</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Organic Synthesis, Biomolecular and Medicinal Chemistry, Green Chemistry, NMR Spectroscopy</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Anton V. Dolzhenko</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:anton.dolzhenko@monash.edu">anton.dolzhenko@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td>umonash-my.academia.edu/AntonDolzhenko</td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My current research interests include synthetic and structural aspects of chemistry of nitrogen heterocycles. I have been actively working on the development of new synthetic methods for the preparation of potentially bioactive compounds with primary focus on anticancer and CNS-acting agents. My work in green chemistry includes development of new efficient and safe synthetic methods by employing alternative eco-friendly solvents, elaboration of microwave-promoted reactions, and exploring one-pot multicomponent approaches. Additionally, I work on the structural analysis and estimation of thermodynamic parameters for dynamic equilibria using NMR spectroscopy.

**List up to 10 of your most recent or most important papers, giving the full citation**

4. Bera, H.; Ojha, P. K.; Tan, B. J.; Sun, L.; Dolzhenko, A. V.; Chui, W. K.; Chiu, G. N. C. Discovery of mixed type thymidine phosphorylase inhibitors endowed with antiangiogenic properties: Synthesis, pharmacological evaluation and molecular docking study of 2-thioxo-


How many publications, in total, have you published?
>80 papers in ISI/Scopus cited journals, 3 chapters books

List any patents you have registered
2008, RU 2331418; Chem. Abst. 149:259505.
2007, RU 2330854; Chem. Abst. 149:246567.
2007, RU 2303443; Chem. Abst. 147:181549.
2007, RU 2294199; Chem. Abst. 146:258712.
2005, RU 2247721; Chem. Abst. 142:298002.
2004, RU 2228753; Chem. Abst. 141:167804.
2004, RU 2227797; Chem. Abst. 141:174077.
4.2.4 Dr. Babak Salamatinia

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<tr>
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<td>Engineering/Chemical Engineering</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Environment, water treatment (Adsorption), ultrasonic assisted processes, Advanced material in particulat NCC</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. Babak Salamatinia</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:babak.salamatinia@monash.edu">babak.salamatinia@monash.edu</a></td>
</tr>
</tbody>
</table>
ResearchGate: https://www.researchgate.net/profile/Babak_Salamatinia |

Give a brief description of your research interests and/or expertise

My ambition has always been towards saving environment. This could be achieved by treatment and reuse of sources which water is one of the main areas which I am interested in. Adsorption and developing new material as adsorbents has been a main focus of mine. The experience gained through ultrasonic assisted production of biodiesel as a renewable source of energy, directed me towards use of ultrasonic in different applications. Currently I am focusing on nano crystalline cellulose as a renewable source of material for different applications to be used as catalyst and/or water treatment. Application of ultrasonic in this material is of great interest of mine.

List up to 10 of your most recent or most important papers, giving the full citation


**How many publications, in total, have you published?**
26 Peer Reviewed Journal, 2 Accepted pending publication, more than 20 Conference proceedings

**List any patents you have registered**
Give a brief description of your research interests and/or expertise

Interests include ecology of tropical rivers, lakes, peat swamps and mangrove forests. Present research focuses on the ecology of tropical peat swamp forests, an extreme and endangered environment (low pH, low nutrients, low oxygen). Leaf litter decomposition and peat formation, particularly with respect to microbial ecology and nutrient cycling is being studied. New species of algae, fungi and invertebrates have been discovered, including forms never before observed.

Another topic of interest is a comparison of ecosystem functioning of tropical headwater streams in different forest types and at different altitudes, focusing on leaf litter breakdown by invertebrate shredders of Malaysian streams along an altitudinal gradient and microbes. These studies are contributing to a worldwide comparison of tropical-temperate stream ecosystem function.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

40

List any patents you have registered
Give a brief description of your research interests and/or expertise

My heart lies in the research on technology enhance learning, teaching, assessment and feedback in higher education and special education. In addition, the latest technologies such as mobile and wearable technologies with its implementation framework are the extension of the previous work. The current research group is investigating how technology innovation can impact to higher education, innovation and healthcare in Malaysia. The research can be applied in the following sectors (not limited):

- Public and private universities
- Special education schools
- Hospitals
- Business organisations

The research team is exploring the real world problems with real stakeholders, landscaping the current practices, design and modeling the solutions with the leading industrial collaboration in the related area. From the blended learning institutional implementation framework and strategies to technology innovations enhancing day-to-day practices in assessment and feedback inform and transform the modeled solutions.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?
> 40

List any patents you have registered
0
### 4.2.7 Professor Chow Sek Chuen

<table>
<thead>
<tr>
<th>Institution</th>
<th>Monash University Malaysia</th>
</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Immunotoxicology, mechanisms and regulation of apoptosis, T lymphocyte biology and signaling, and parasitology.</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Chow Sek Chuen</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:chow.sek.chuen@monash.edu">chow.sek.chuen@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.sci.monash.edu.my/staff/Professor-Chow-Sek-Chuen.html">http://www.sci.monash.edu.my/staff/Professor-Chow-Sek-Chuen.html</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My interest lies mainly in the understanding of how xenobiotics modulate the immune system, particularly on T lymphocytes and their function. Using various human and rodent model systems, the immunomodulatory effects of xenobiotics on many aspects of T cell biology, such as development, activation, differentiation, cellular homeostasis and apoptosis are being investigated. All these processes have defined endpoints that are tightly regulated by signaling pathways, metabolic processes and enzyme cascades. Understanding how these molecular processes are affected by xenobiotics helps to provide a better understanding in the development of new strategies for therapeutic intervention for some immunological disorders. Many xenobiotics and infectious agents exert their immunotoxicity through the induction or inhibition of apoptosis in immune cells. Understanding these processes can provide insights into how some immunological diseases arise and offer opportunities to advance our knowledge on the molecular basis of infection and diseases in the immune system.

**List up to 10 of your most recent or most important papers, giving the full citation**


8. Lawrence, S.C. and Chow, S.C. Suppression of human T cell proliferation by the caspase inhibitors, z-VAD-FMK and z-IETD-FMK is independent of their caspase inhibition properties. Toxicol. Appl. Pharmacol. 265:103-


How many publications, in total, have you published?
75

List any patents you have registered
Pro-apoptotic agents
SC Chow, DI Pritchard - US Patent 20,040,058,017, 2004
4.2.8 Dr. David James Young

<table>
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<td>School/Department/Faculty</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Name</td>
<td>David James Young</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:David.james.young@monash.edu">David.james.young@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My expertise is the application of organic and inorganic chemistry to the synthesis of new materials. These materials have antibacterial properties, gas absorption properties, luminescent properties or chemical sensing properties. Our laboratory synthesizes, characterizes and tests these materials.

**List up to 10 of your most recent or most important papers, giving the full citation**

Organometallics 2013, 32(10), 2908–2917.
7. Young, D. J.; Chien, S. W.; Hor, T. S. A. “1,1-Bis(diphenylphosphino)ferrocene in Functional Molecular Materials” DaltonTrans. 2012, 41, 12655–12665. (front cover)

How many publications, in total, have you published?
126 ISI publications, 5 book chapters

List any patents you have registered
2 patent applications
4.2.9 Dr. David Wu

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<td>School/Department/Faculty</td>
<td>School of Pharmacy</td>
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<td>Main Research Area(s)</td>
<td>Health Technology Assessment Health economics Economic modeling Systematic review and meta-analysis Network meta-analysis Patient-level data analysis Health system and policy research</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. David Wu</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:david.wu@monash.edu">david.wu@monash.edu</a></td>
</tr>
<tr>
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<td></td>
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</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

Dr. David Wu-Bin Chia’s primary research interest focuses on health economics modelling outcomes research (e.g. decision tree model, Markov model, transmission dynamic model and discrete event model) in both communicable and non-communicable diseases. His other research interest includes statistical methodologies especially Bayesian approach in health economics.

**List up to 10 of your most recent or most important papers, giving the full citation**


### 4.2.10 Professor Eduard Bomhoff

<table>
<thead>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Business/Economics Dept.</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Monetary Macroeconomics and Economic Growth, Cultural factors in economic development</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Eduard Bomhoff</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:eduard.bomhoff@monash.edu">eduard.bomhoff@monash.edu</a></td>
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<td>URL</td>
<td><a href="http://www.buseco.monash.edu.my/school-staff/Eduard-Bomhoff-Prof-Profile.html">http://www.buseco.monash.edu.my/school-staff/Eduard-Bomhoff-Prof-Profile.html</a></td>
</tr>
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</table>

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**Give a brief description of your research interests and/or expertise**

Eduard J. Bomhoff is a Professor of economics at the School of Business, Monash University Sunway campus.

He has served as Director of the School of Business at the Malaysia campus of the University of Nottingham from 2005 till 2010. In his home country (the Netherlands), he was professor of economics at Erasmus University Rotterdam and Nyenrode Business School. Many of his former students are now professors at business schools in Europe and the US. He has also served as Deputy Prime Minister and Minister of Health in the interim government in the Netherlands after the assassination of Pim Fortuyn in May 2002.

His research interests are monetary macroeconomics and economic growth. He has worked at the Bank of Japan and the International Monetary Fund and has been Bundesbank Professor at the Free University of Berlin. He has also held visiting appointments at NTU in Singapore and in Leuven, Kiel and Moscow and has been a consultant or board member at several banks and pension funds. In 2005, he was appointed by the World Values Survey as principal investigator for Malaysia.

In his home country, he has been a board member of the Holland Festival, the Rotterdam Philharmonic Orchestra and the Netherlands Dance Theatre. In 1998, Queen Beatrix appointed him as Officer in the Order of Oranje-Nassau. Main or sole supervisor for 6 completed PhD dissertations at the Netherlands School of Economics, main or sole supervisor for 2 PhD dissertations in Malaysia.

Janneke and Eduard Bomhoff have two children, Jacco and Manja. Hobbies include opera and classical music (since 2004 they are great fans of the MPO) and travel.
List up to 10 of your most recent or most important papers, giving the full citation

2. Bomhoff, E. and Gu Man-Li (2012) East Asia Remains Different: A comment on the index of “Self-expression values” by Inglehart and Welzel ”Journal of Cross-cultural Psychology (rated A)

How many publications, in total, have you published?
75+ Academic publications and 400+ newspaper columns and editorial page contributions

List any patents you have registered
none
4.2.11 Professor Ferdinand A.K. Gul

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<td>School/Department/Faculty</td>
<td>School of Business/Accounting &amp; Finance Unit</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Inter-disciplinary application of Contracting and Agency theories to Auditing, Corporate Finance and Corporate Governance</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Ferdinand A.K. Gul</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:f.a.gul@monash.edu">f.a.gul@monash.edu</a></td>
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<tr>
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<td><a href="http://www.buseco.monash.edu.my/school-staff/Ferdinand-Akthar-Gul-Prof.html">http://www.buseco.monash.edu.my/school-staff/Ferdinand-Akthar-Gul-Prof.html</a></td>
</tr>
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</table>

**Give a brief description of your research interests and/or expertise**

The thrust of my research is inter-disciplinary mix of Auditing, Accounting, Finance, Law, Economics and Organizational theory. I have published more than 65 refereed papers. Many of the papers appear in leading high impact factor (see ISI Journal Citation Reports) journals such as Journal of Financial Economics, Journal of Accounting and Economics, Journal of Accounting Research, Contemporary Accounting Research, Auditing: A Journal of Practice and Theory, Journal of Corporate Finance, The Accounting Review, Accounting Horizons and Journal of Accounting and Public Policy.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
65

List any patents you have registered
Nil.
4.2.12 Professor Gamini Herath

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<tr>
<td>Main Research Area(s)</td>
<td>Sustainable development, Environmental Economics, Economic Development of Asia</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Gamini Herath</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:gamini.herath@monash.edu">gamini.herath@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.buseco.monash.edu.my/school-staff/Mudiyanselage-Gamini-Herath-Prof-Profile.html">http://www.buseco.monash.edu.my/school-staff/Mudiyanselage-Gamini-Herath-Prof-Profile.html</a></td>
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</table>

Give a brief description of your research interests and/or expertise

My expertise is in the economics, specifically environmental economics, through high quality publications, competitive research grants and other academic activities. I have published widely and internationally in the area of natural resources and environmental economics in numerous high quality peer reviewed journals, including Ecological Economics, Australian Journal of Agricultural and Resource Economics and Journal of Environment Management recently. My previous publications have been in the American Journal of Agricultural Economics and Journal of development Studies. These journals have high impact factors, ranging from 0.87 to 1.2. I have also published books, book chapters with highly reputed international scholars and international publishers. These deal with water management, natural resource management and sustainable development. I have established a network of institutions for collaborative work with Missouri University, Texas A&M University, IFPRI (International Food Policy Research Institute in Washington), Aldo Leopold Institute for wilderness Research, Montana USA and SANDEE (South Asian Network of Development and environmental Economics).

List up to 10 of your most recent or most important papers, giving the full citation

3. Herath, G. (2012). The privatization of telecommunications services with special reference to
developing countries. Journal of Global Intelligence and Policy, 5(8), 50-68.


How many publications, in total, have you published?
75 journal papers, 6 books and 15 book chapters.

List any patents you have registered
NIL
Dr. Grace Lee Hooi Yean

Institution: Monash University Malaysia
School/Department/Faculty: Business/ Economics/ Business and Economics
Main Research Area(s): International economics, labour economics, social capital and applied economics
Name: Grace Lee Hooi Yean
EMAIL: grace.lee@monash.edu
URL: http://www.buseco.monash.edu.my/school-staff/Dr-Grace-Lee-Hooi-Yean-Profile.html

Give a brief description of your research interests and/or expertise

Grace’s principal research interests are international economics, labour economics, social capital and applied economics. She has published in various international journals such as Public Choice, Journal of Asian Economics, Applied Economics, Economic Modelling, Journal of the Japanese and International Economies and Journal of the Asia Pacific Economy.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?
1 book chapter; 10 international journal articles

List any patents you have registered
None
4.2.14  Professor Iain L Densten

<table>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Business</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Leadership, culture, climate</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Iain L Densten</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Iain.densten@monash.edu">Iain.densten@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.buseco.monash.edu.my/school-staff/Iain-L.-Densten.html">http://www.buseco.monash.edu.my/school-staff/Iain-L.-Densten.html</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Professor Densten’s primary research and teaching areas are leadership and its relationship to organisational effectiveness, behavioural complexity, neuroscience, resilience, knowledge management, change and innovation, executives, Australian Business, health, followership, coaching and mentoring, burnout and stress, high performance, research methods, behaviour, learning and development, sustainability, values and culture, and emotions. Professor Densten draws on his experience in both the public and private sectors and has had considerable success in publishing in prestigious internationally refereed journals e.g., The Journal of Organizational Behavior, Australian Journal of Management, International Journal of Police Strategies and Management, Leadership and Organizational Development Journal, and British Journal of Management. Professor Densten is currently serving on the Editorial Advisory Boards for Leadership and Leadership and Organizational Development Journal.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
Book 1, Chapters 5, Conference proceedings 35, International Journal Articles 24

List any patents you have registered
None
4.2.15  Professor Ishwar Parhar

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<th>Institution</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Brain Research Institute Monash Sunway (BRIMS)/Jeffrey Cheah School of Medicine &amp; Health Sciences</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Neuroscience; Reproduction; Endocrinology; Biotechnology</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Ishwar Parhar</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:ishwar@monash.edu">ishwar@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.med.monash.edu.my/brims/">http://www.med.monash.edu.my/brims/</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

We provide a unique opportunity to work across key disciplines to achieve multiple aims of identifying factors and areas of the brain involved in reproductive aging and neuropsychiatric disorders. We have highly advanced research facilities and an excellent training platform in neuroscience. The areas that we focus on and have expertise in include:

1. Reproduction
2. Depression
3. Addiction
4. Sleep Disorder
5. Neurodegeneration/Neuroregeneration.

We have developed transgenic animal models and techniques such as Neuroimaging, Functional genomics and Behavioural analysis to address neurological problems. In addition, we are interested in the identification of non-coding RNA and novel genes in neurodegenerative diseases and the identification of natural products as effective therapy for reproductive aging and psychiatric disorders.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?

>124

**List any patents you have registered**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Cloning and localization of a gene encoding kisspeptin in zebrafish</td>
<td>PI 20071882</td>
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<td>2</td>
<td>A promoter sequence to target GnIH neurons</td>
<td>PI 2013702245</td>
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<td>3</td>
<td>Combination of ghrelin and kisspeptin analogs (GPR54 agonists) for growth of aquatic animals</td>
<td>PI 2013702246</td>
</tr>
<tr>
<td>4</td>
<td>Development of marker Gene for Genetic Improvement in Fish Reproduction</td>
<td>PI 2013702495</td>
</tr>
<tr>
<td>5</td>
<td>Use of Kisspeptin and its receptor, GPR54 Agonist to regulate serotonin</td>
<td>PI 2013702494</td>
</tr>
<tr>
<td>6</td>
<td>Cloning and localization of a gene encoding kisspeptin in zebrafish</td>
<td>PI 2013004240</td>
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</table>
**4.2.16 Dr Jane Tong**

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<tr>
<td>School/Department/Faculty</td>
<td>Business/Management</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Organizational Behaviour (Leadership, values, organizational climates)</td>
</tr>
<tr>
<td>Name</td>
<td>Jane Tong</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Jane.tong@monash.edu">Jane.tong@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.buseco.monash.edu.my/school-staff/Jane-Terpstra-Tong-Lai-Yee-Assoc-Prof-Profile.html">http://www.buseco.monash.edu.my/school-staff/Jane-Terpstra-Tong-Lai-Yee-Assoc-Prof-Profile.html</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

My preferred research method is survey research method and my current research centers on the topics of leadership, organizational climates and intra-entrepreneurial behavior. I am interested in working with post-docs who have acquired a good understanding of survey research method, structural equation modeling, and statistics, and have the desire to apply those in understanding organizational behavior.

**List up to 10 of your most recent or most important papers, giving the full citation**

**Refereed Journal Papers:**


Book

How many publications, in total, have you published?
Book (1); Refereed journal articles (11); International conferences (11); Professional reports (4)

List any patents you have registered
n/a
4.2.17 Professor Jeyapalan Kasipillai

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<td>Business Law and Taxation, School of Business</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Tax Compliance, Measurement of Hidden Economy, Islamic Taxation, Distributive Effects of Goods and Services Tax</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Jeyapalan Kasipillai</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:jeyapalan.kasipillai@monash.edu">jeyapalan.kasipillai@monash.edu</a></td>
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<td><a href="http://www.buseco.monash.edu.my/school-staff/Jeyapalan-Kasipillai-Professor.html">http://www.buseco.monash.edu.my/school-staff/Jeyapalan-Kasipillai-Professor.html</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

Dr Jeyapalan Kasipillai is a Professor and Deputy Head of School (Education) of School of Business at Monash University Malaysia, and Adjunct Senior Research Fellow, Taxation Law and Policy Research Institute. In the past, he served the Inland Revenue Board for over 15 years and was a Director of Tax Investigations. He later served University Utara Malaysia as a senior tax academic for another 15 years. Since 1994, Jeyapalan is a Council Member of the Chartered Tax Institute of Malaysia. Jeyapalan is also a member of Editorial Committees of numerous international journals. In January 2013, Jeyapalan was appointed as panel member of the Malaysian Qualification Agency (MQA) and later in August 2013, he was appointed as Programme External Assessor by University of Malaya. On 13 June 2014, Jeyapalan was appointed as GST Monitoring Group member chaired by the Chief Secretary to the Government, Ministry of Finance, Putrajaya. He completed the Royal Malaysian Customs GST Training Course and passed the GST Tax Agent examination in April 2014.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**

Books (14), Chapters (10), Refereed Articles (146)

**List any patents you have registered**

None.
### 4.2.18 Professor Joshua Li

<table>
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<tr>
<th>Institution</th>
<th>Monash University Malaysia</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Engineering &amp; Multidisciplinary Platform of Advanced Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Electrical &amp; Computer Systems Engineering</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Joshua Li</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Joshua..li@monash.edu">Joshua..li@monash.edu</a></td>
</tr>
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**Give a brief description of your research interests and/or expertise**

- Electromagnetic Theory (Dyadic Green’s Functions & Vector Wave Functions)
- Radio Wave Propagation (Wireless Power Transfer & Charging, Microwave Power Transmission, Radio Wave Attenuation, Waves in Forests & Waves in Ionosphere)
- Antenna Theory, Analysis & Design (Nano Antennas, Microstrip, Loop, and Reflector Antennas)
- Electromagnetic Radiation & Scattering (RCS, EMC/EMI, Large-Scale Circuit Designs)
- Bio-Electromagnetics (Microwave Biological Interaction, Specific Absorption Rate, DNA and Human Hazard, Microwave Breast Cancer Treatment)
- Electromagnetic Materials (Nano-Scaled Composite & Artificial Materials, and Metamaterials)
- Computational EM (Numerical Techniques, Fast Algorithms, and EM Fast Solvers)
- Nano EM (Nano Antennas, Surface Plasma, Plasmonic Resonance, Nano Circuits)

**List up to 10 of your most recent or most important papers, giving the full citation**

Number of citations is taken from Google Scholar. Citations for classic electromagnetics works are usually small due to the format and nature of engineering journals (with an average of about 12 references in each engineering paper, in comparison with an average of about 60 references in each biomedical material paper).

How many publications, in total, have you published?

- 4 books (2 published in 2001 and 2010; and 2 in press; namely, Spheroidal Wave Functions in Electromagnetic Theory (New York: Wiley, 2001); Device Modeling in CMOS Integrated Circuits: Interconnects, Inductors and Transformers (London: Lambert Academic Publishing); and other two books in press); and 48 book chapters;
- over 370 international refereed journal papers (of which about half of these papers were published in IEEE Transactions and Letters, and the remaining in Optics Express, Applied Physics Letters, Physical Review E or B, Radio Science, IEE Proceedings, and JEW A etc);
- 49 regional refereed journal papers; and over 400 international conference papers.
He has graduated over 100 PhD- and Master-degree students, and mentored over 20 post-doctoral fellows and (senior) research scientists. Among those publications, over 530 of his papers have been indexed in ISI database, with about 3000 citations and H-index of 25 in ISI; and with 5860 citations, an H-index of 36, and an i10-index of 185 in Google Scholar.

**List any patents you have registered**

11 patents filed in 2012 and 2013 (among them, 4 granted in 2014).
4.2.19  Professor Kenneth Lee

<table>
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<td>School of Pharmacy</td>
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<td>Faculty/Faculty</td>
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<td>Main Research Area(s)</td>
<td>Health Technology Assessment Health economics Economic modeling Systematic review and meta-analysis Network meta-analysis Patient-level data analysis Health system and policy research</td>
</tr>
<tr>
<td>Name</td>
<td>Prof. Kenneth Lee</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:kenneth.lee@monash.edu">kenneth.lee@monash.edu</a></td>
</tr>
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Give a brief description of your research interests and/or expertise

Prof Kenneth Lee has substantial experience in performing cost-effectiveness analysis of new pharmacotherapies and policy research of healthcare resource utilization. He is the editor-in-chief and editorial member of a number of peer-reviewed international journals.

List up to 10 of your most recent or most important papers, giving the full citation

5. Lee KK, Lee VWY, Alemo E, Semlitz L, Tomlinson BT. Cholesterol goal attainment in patients with Coronary Heart Disease and Elevated Coronary Risk: Results of the Hong Kong
Hospital Audit Study. Value in Health 2008;11 (s1):S91–S98


4.2.20 Dr.Keshab Shrestha

<table>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Business</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Asset pricing, financial risk management, financial econometrics</td>
</tr>
<tr>
<td>Name</td>
<td>Keshab Shrestha</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:keshab.shrestha@monash.edu">keshab.shrestha@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise

I am interested in inter-disciplinary research that involves accounting, economics, finance as well as statistics. Specifically, my research interest lies in asset pricing that includes price discovery and financial risk management including the impact of corporate governance on asset prices. I am also interested in methodological issues in the area of financial econometrics.

List up to 10 of your most recent or most important papers, giving the full citation

How many publications, in total, have you published?
Around 34
List any patents you have registered
None
## 4.2.21 Dr. Kuang Ye Chow

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<td>School/Department/Faculty</td>
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</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Statistical Machine Learning, System Modelling and Measurement Analysis</td>
</tr>
<tr>
<td>Name</td>
<td>Kuang Ye Chow</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:kuang.ye.chow@monash.edu">kuang.ye.chow@monash.edu</a></td>
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<tr>
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<td><a href="https://sites.google.com/site/kuangyechow/home">https://sites.google.com/site/kuangyechow/home</a></td>
</tr>
</tbody>
</table>

### Give a brief description of your research interests and/or expertise

**Fields of expertise:**

1. **System modeling and diagnostic using stochastic excitation signal**
   Projects: design and application of optimum multisine excitation in electronics testing. Design of measurement system excited by noise.
2. **Structured approach towards the evaluation of measurement uncertainty**
   Projects: application of measurement uncertainty framework to engineering design problems.
3. **Application of statistical and machine learning methods on machine vision problems**
   Projects: abnormal cell recognition in biopsy samples, unsupervised optimal human detection, animal behavior quantification (for the use in biomedical research)

### List up to 10 of your most recent or most important papers, giving the full citation


**How many publications, in total, have you published?**

61

**List any patents you have registered**

0
4.2.22  Dr. Mahendhiran Nair

<table>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Econometrics &amp; Business Statistics/School of Business</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Econometrics, big data analytics, behavioral economics, development economics, innovation ecosystems and ICT strategy &amp; policy.</td>
</tr>
<tr>
<td>Name</td>
<td>Mahendhiran Nair</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:mahendhiran.nair@monash.edu">mahendhiran.nair@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.buseco.monash.edu.my/school-staff/Mahendhiran-Sanggaran-Nair-Prof-Profile.html">http://www.buseco.monash.edu.my/school-staff/Mahendhiran-Sanggaran-Nair-Prof-Profile.html</a></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise

My research interests are in the applications of econometric modeling methods, statistical pattern recognition techniques and business analytics tools to study key factors that impact socioeconomic development of countries, firms and marginalized communities. I have received competitive research grants to develop new empirical models to study the adoption of new technologies and their impact on socioeconomic development of marginalized communities in Malaysia. Some of my research work has been used in national strategic plans and national policy position papers such as the National ICT Strategic Roadmap 2007 (Ministry of Science & Technology), The Malaysian New Economic Model (NEAC-Prime Minister’s Department) and Increasing Broadband Penetration and Quality for National Transformation Based on Science & Technology (Academy Sciences Malaysia, 2013).

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

More than 60.

List any patents you have registered

0
4.2.23  Dr. Marco Buente

<table>
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<td>School/Department/Faculty</td>
<td>School of Arts and Social Sciences (SASS)</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Comparative Politics, International Relations</td>
</tr>
<tr>
<td>Name</td>
<td>Marco Buente</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Marco.buente@monash.edu">Marco.buente@monash.edu</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My research lies in the intersection of comparative politics and International relations. I work on regime change and persistence (democratization and autocratic regression), external factors of democratization (sanctions and aid policy), governance issues (decentralization, civil military relations) and transnational security issues (piracy, terrorism). My main research area is Southeast Asia.

**List up to 10 of your most recent or most important papers, giving the full citation**

2. Buente, Marco and Andreas Ufen: Democratization in Post Suharto Indonesia, Routledge Palgrave


How many publications, in total, have you published?
- 100

List any patents you have registered
**4.2.24 Dr. Maude E. Phipps**

<table>
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<th>Institution</th>
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</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Jeffrey Cheah School of Medicine and Health Sciences</td>
</tr>
</tbody>
</table>
| Main Research Area(s) | Human Molecular Genetics  
|                     | Translational Medicine & Diagnostics  
|                     | DNA Typing for Stem Cell Transplantation  
|                     | Cardio-metabolic disorders, Autoimmunity, Pharmacogenomics,  
|                     | Microbial and Human Genome Evolution  
|                     | Next Generation Sequencing and Bioinformatics  
|                     | Bioethics                                        |
| Name               | Maude E. Phipps                                  |
| EMAIL              | Maude.Phipps@monash.edu                          |

**Give a brief description of your research interests and/or expertise**

My research over the past 23 years has encompassed a wide range of investigations and laboratory solutions that have centered around the broad theme of genomics and health. Current research focuses on the genomics of Homo sapiens to answer questions related to our evolution, migration, morphological development and health, especially systemic lupus erythematosus and cardio-metabolic diseases such as Type 2 diabetes, Hypertension, Infectious diseases including dengue. Recently I have leveraged on new technology platforms such as Next Generation Sequencing (NGS) and Bioinformatics for large data analyses of human genomes in collaboration with collaborators within Human Genome Organisation network and other international consortiums. I am excited about the interphase between human host and microbial interactions and various aspects of evolutionary medicine which will definitely impact and inform current and future practice of medicine and healthcare. Apart from translational medicine, I’m a keen advocate of bioethics education and research programmes in Asia and within UNESCO, especially in rapidly developing countries which have placed science and biotechnology high on their development agendas.
**List up to 10 of your most recent and/or most important papers, giving the full citation**

1. Yang X, Xu S; HUGO Pan-Asian SNP Consortium; Indian Genome Variation Identification of close relatives in the HUGO Pan-Asian SNP database. PLoS One. 6(12):e29502
7. MK Choy and ME Phipps (2010) MICA polymorphism , Biology and Importance in Autoimmunity and Disease. Trends in Molecular Medicine, 16, ISI, Scopus, ERA A*, IF : 11.05

**How many publications, in total, have you published?**

I have published over a hundred papers and articles in international peer reviewed high quality journals, reviewed local journals reference textbooks, conference proceedings, , newsletters, bulletins, advisories, media releases, newspaper articles, interviews, etc. These are some of the results of my research activities, student supervisions and engagements which cut across a variety of people and organizations, ranging from personal communications with Nobel laureates to working with individuals and families in Malaysian indigenous communities.

**List any patents you have registered –**

Not applicable, as yet
4.2.25 Dr. Md. Ezharul Hoque Chowdhury

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<td>Jeffrey Cheah School of Medicine and Health Sciences</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Nanotechnology, Targeted Therapy, Cancer Therapy, Gene Therapy, Gene Knockdown, Drug Delivery, Oral Insulin Therapy</td>
</tr>
<tr>
<td>Name</td>
<td>Associate Professor Dr. Md. Ezharul Hoque Chowdhury</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:md.ezharul.hoque@monash.edu">md.ezharul.hoque@monash.edu</a></td>
</tr>
<tr>
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<td><a href="http://www.med.monash.edu.my/staff/academic/biomedical-science/md-ezharul-hoque-chowdhury">http://www.med.monash.edu.my/staff/academic/biomedical-science/md-ezharul-hoque-chowdhury</a></td>
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<td></td>
<td><a href="http://www.researchgate.net/profile/Ezharul_Chowdhury">http://www.researchgate.net/profile/Ezharul_Chowdhury</a></td>
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<tr>
<td></td>
<td><a href="http://umonash-my.academia.edu/EzharulHoqueChowdhury">http://umonash-my.academia.edu/EzharulHoqueChowdhury</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

We pioneered the development of world 1st pH-sensitive inorganic nanoparticles for cell-targetable and efficient delivery of anti-cancer drugs, gene-silencing elements (siRNAs), therapeutic genes and proteins in order to treat critical human diseases, such as cancer and diabetes. We are currently developing more efficient and biocompatible nano-carriers for tumor-targeted delivery of small and macromolecular drugs in addition to other emerging projects on oral delivery of insulin, protein purification by nanoparticles and molecular diagnosis.

**List up to 10 of your most recent or most important papers, giving the full citation**

2. Chowdhury, E. H., Maruyama, A., Nagaoka, M., Hirose, S., Megumi, K. and Akaike, T. pH-


How many publications, in total, have you published?
More than 60 in the international journals of high repute

List any patents you have registered


### 4.2.26 Dr. Melanie Ooi

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<tr>
<td>School/Department/Faculty</td>
<td>Engineering/Electrical and Computer Systems</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Pattern recognition and machine intelligence; Electronic test and manufacturing technologies; Measurement</td>
</tr>
<tr>
<td>Name</td>
<td>Melanie Ooi</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Melanie.ooi@monash.edu">Melanie.ooi@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="https://sites.google.com/site/melanieooi/">https://sites.google.com/site/melanieooi/</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

**Fields of expertise:**

1. **Pattern recognition and machine intelligence**
   a. Pattern recognition for Automatic Renal Fibrosis Quantification (with Sultanah Aminah Hospital)
   b. Computer Vision for Unstained Pathological Diagnosis (with Sultanah Aminah Hospital)
   c. Artificial Intelligence for Real-Time Flood Forecasting (with Civil Engineering)
   d. A Novel Decision Tree Algorithm: High Dimensional ADTree
   e. Sign Language Recognition and Synthesis (with Massey University, New Zealand and International Islamic University Malaysia)

2. **Electronic test and manufacturing technologies**
   a. Systematic Defect Detection and Production Data Analysis (with Freescale Semiconductor)
   b. Defect Recognition and Localization for Hard Disk Drives (with Western Digital)
   c. LED Test System (with Cohu Inc)

3. **Measurement**
   a. Algebraic Measurement Uncertainty Propagation Framework For Nonlinear Systems
   b. Novel Sensing Circuit for Bacteriorhodopsin Colour Image Sensor
   c. Illumination Distribution Measurement System for Modelling and Simulation of the Intelligent
   d. LED Lighting System
   e. Statistically Robust Phase Space Multisine Analysis for Nonlinearity Characterisation
   f. Light-based Vision Inspection System
List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?
51

List any patents you have registered
0
4.2.27 Dr Meng Nan, Chong

Institution
Monash University Malaysia

School/Department/Faculty
Chemical Engineering Discipline, School of Engineering

Main Research Area(s)
Photocatalysis; Photoelectrocatalysis; Nanostructured Thin Films; Water Treatment; Water Supply and Integrated Water Resources Management

Name
Dr Meng Nan, Chong

EMAIL
Chong.Meng.Nan@monash.edu

URL
http://publicationslist.org/meng.chong

Give a brief description of your research interests and/or expertise

My main areas of expertise are (1) nanotechnology for water and energy conversion and (2) integrated water resources management. For the former area, my research interests are on the synthesis, characterization and application of photocatalysts and photoelectrocatalysts to resolve energy (i.e. solar to renewable hydrogen conversion) and environmental (i.e. water and environmental cleanup) concerns. At present, I am managing 5 PhD students in this area working actively to come up with various nanotechnological solutions. Meanwhile, for the latter area 2, my researches are focused on the effective utilization of alternative source waters, water characterization, monitoring and treatment, development of decentralized water systems and water footprints assessment of different industries. I also have 3 PhD students and 1 research assistant working actively in this area. In overview, my research group aims at addressing the critical urban water-energy issues at both the national and international levels.

List up to 10 of your most recent or most important papers, giving the full citation


**How many publications, in total, have you published?**

> 100 publications in invited book chapters, journal and conference papers, as well as client consultancy reports.

**List any patents you have registered**

No patent has been registered so far, but there is one Malaysian patent will be filed in 2015.
4.2.28  **Professor Nathorn Chaiyakunapruk**

<table>
<thead>
<tr>
<th>Institution</th>
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</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Pharmacy</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Health Technology Assessment Health economics Economic modeling Systematic review and meta-analysis Network meta-analysis Patient-level data analysis Health system and policy research</td>
</tr>
<tr>
<td>Name</td>
<td>Prof. Nathorn Chaiyakunapruk</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:nathorn.chaiyakunapruk@monash.edu">nathorn.chaiyakunapruk@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
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</table>

**Give a brief description of your research interests and/or expertise**

Professor Nathorn is best known for his research expertise in Health Technology Assessment, health economics, health outcomes research, and health system and policy research. He applied systematic review, meta-analysis, and economic modeling to assess health technology.

**List up to 10 of your most recent or most important papers, giving the full citation**


### Give a brief description of your research interests and/or expertise

My main research interest is in applying mathematical and computational modelling techniques to study different biophysical problems, with emphasis on bioheat transfer and biofluid dynamics. Because experimental studies on some of these problems are nearly impossible due to various reasons, mathematical and computational modelling approaches present a viable alternative to understand these problems. Some of the research problems that I have investigated include heat transfer inside the human eye, thermal ablation of cancer and the mechanics of attached human sperm. Currently, I am looking into the ocular biomechanical interactions during the formation of glaucoma and the saline-infused radiofrequency ablation. The former involves collaboration with researchers from Nanyang Technological University, Singapore and University of Malaya, while the latter involves collaboration with another lecturer from Monash’s School of Medicine and University of Malaya.

I also retain an interest in the development of numerical methods based on integral equations for solving engineering problems.

### List up to 10 of your most recent or most important papers, giving the full citation

1. EH Ooi, DJ Smith, H Gadelha, EA Gaffney, J Kirkman-Brown, The mechanics of hyperactivation inadhered human sperm, Royal Society Open Science, Accepted for publication, 2014.
3. EH Ooi, V Popov, A simplified approach for imposing the boundary conditions in the local boundary integral equation method. Computational Mechanics, 2013, vol.51 (5), pp. 717-
729.

How many publications, in total, have you published?
26 journal papers, 10 conference proceedings, 8 book chapters

List any patents you have registered
0
4.2.30 Professor Pervaiz K Ahmed

<table>
<thead>
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</tr>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Management Discipline, School of Business</td>
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<tr>
<td>Name</td>
<td>Professor Pervaiz K Ahmed</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:pervaiz.ahmed@monash.edu">pervaiz.ahmed@monash.edu</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Prof Pervaiz K Ahmed is the Deputy Head of School (Research), Discipline Head of Management and Director of Halal Ecosystem in Monash University Malaysia. Previously he has held academic positions in several UK universities. He has published extensively in international journals, has been a keynote speaker at international venues and won numerous academic awards for his research. He is the founding editor of the European Journal of Innovation Management, the International Journal of Management Concepts and Philosophy, International Journal of Business Ethics and Governance and International Journal of Management Practice. He has extensive experience working with and advising blue chip companies and public sector organizations such as Unilever, Ford, AT&T, NCR, British Telecommunications, NHS in Europe, the Dubai government as well as the Islamic Development Bank. He has also been involved with corporate clients in Asia such as Malaysia Airlines, CELCOM, as well as government agencies such as the Singapore National Productivity Council.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
Books 5, Chapters 10, Refereed Articles 100+, and Refereed Conference Proceedings 95.

List any patents you have registered
None.
4.2.31 Dr. Poh Phaik Eong

Institution
Monash University Malaysia

School/Department/Faculty
School of Engineering

Main Research Area(s)
Water and wastewater treatment

Name
Poh Phaik Eong

EMAIL
poh.phaik.eong@monash.edu

URL
-

Give a brief description of your research interests and/or expertise

My research interests are mainly focused on the treatment of Palm Oil Mill Effluent (POME) and greywater (household wastewater) but not limited to these sources. For POME treatment, my current interest is to develop a robust control system and automate a thermophilic anaerobic POME treatment process. As for greywater, my current focus is on the development of biodegradable membrane for decentralized greywater treatment. I also look into various technologies that can be implemented to improve the POME treatment process and development of decentralized greywater treatment units to produce water that can be reused for non-potable activities.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?
15

List any patents you have registered:
N/A
4.2.32 Dr. Pooria Pasbakhsh

<table>
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<td>Engineering/Mechanical</td>
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<td>Main Research Area(s)</td>
<td>Polymer nanocomposites</td>
</tr>
<tr>
<td>Name</td>
<td>Pooria Pasbakhsh</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Pooria.pasbakhsh@monash.edu">Pooria.pasbakhsh@monash.edu</a></td>
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</table>
| URL                  | http://www.eng.monash.edu.my/about-us/who-we-are/academic-staff#adminpanel/users/info.php?id=152  
https://sites.google.com/site/fibrecomposites/ |

Give a brief description of your research interests and/or expertise

1. Polymer nanocomposites
2. Halloysite nanotubes
3. Electrospinning
4. Sustainable engineering
5. Bionanocomposites

List up to 10 of your most recent or most important papers, giving the full citation

1. Soheilmoghaddam, Mohammad; Pasbakhsh, Pooria; Wahit, Mat Uzir; Bidsorkhi, Hossein Cheraghi; Pour, Raheleh Heidar; Whye, Wong Tuck; De Silva, RT. Regenerated cellulose nanocomposites reinforced with exfoliated graphite nanosheets using BMIMCL ionic liquid. Volume 55, Issue 14, 19 June 2014, Pages 3130–3138.


How many publications, in total, have you published?
More than 30

List any patents you have registered
### 4.2.33 Dr. R. Nagasundara Ramanan

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<td>Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Biomolecular Engineering, Bioprocess Optimization, Interaction of biomolecules, Process analytical technology</td>
</tr>
<tr>
<td>Name</td>
<td>Dr. R. Nagasundara Ramanan</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:ramanan@monash.edu">ramanan@monash.edu</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

A main aim of our research group is to develop, integrate and optimize a process which spreads broadly into fermentation, bioseparation, natural product extraction, biomolecular engineering and process analytical technology. In particular, our research group have been working in the following specific area:

1. Process analytical technology using technique such as surface acoustic wave, surface plasmon resonance
2. Production of proteins via periplasm of Escherichia coli
3. Cell disruption
4. Aqueous two phase system
5. Natural coagulant
6. Bioactive compound

Some of the products which we have worked in the above mention specific area are pharmaceutical proteins such as interferon-alpha2b, Epidermal growth factor, enzymes such as Lipase, natural product such as brown mango. I am proud to mention that our group is one of the first groups in Malaysia who published the work using surface plasmon resonance and I have been constantly invited to disseminate the knowledge on this technique.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**
More than 40 publications

**List any patents you have registered**
No
4.2.34  Professor S. G. Ponnambalam

<table>
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<td>Engineering/Mechatroics/Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Optimization, Scheduling manufacturing systems, Meta-heuristics, Evolutionary Computation, Swarm Robotics, Green manufacturing</td>
</tr>
<tr>
<td>Name</td>
<td>Professor S. G. Ponnambalam</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:sgponnambalam@monash.edu">sgponnambalam@monash.edu</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Optimizing the performance of any system is very important in an environment with scarce resource. A model of the real system should be developed and the model will be solved to get the parameters that could optimize the performance of the system. If we want the ‘optimum’ results, then there optimization solvers, such as LINGO are available to solve the model and to get the optimum solution. Most of the time, optimum solution may not be of interest. Then meta-heuristic algorithms are very much useful to get nearer-to-optimal solution.

My expertise in the application of meta-heuristic algorithms includes the following problems:

- Balancing Robotic/Worker Assembly line Systems
- Energy Optimization in Assembly line systems
- Flexible Assembly Line systems
- Machining parameter optimization
- Trajectory control and obstacle avoidance in mobile robots
- Swarmrobotics
- Green manufacturing

**List up to 10 of your most recent or most important papers, giving the full citation**

2. IJ Leno, SS Sankar, SG Ponnambalam, An elitist strategy genetic algorithm using simulated


How many publications, in total, have you published?
More than 200

List any patents you have registered
Nil
**4.2.35 Dr. Sadequr Rahman**

<table>
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<td>School/Department/Faculty</td>
<td>School of Science</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Genetics and genomics of tropical organisms.</td>
</tr>
<tr>
<td>Name</td>
<td>Sadequr Rahman</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Sadequr.rahman@monash.edu">Sadequr.rahman@monash.edu</a></td>
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<td><a href="http://www.sci.monash.edu.my/staff/Professor-Sadequr-Rahman.html">http://www.sci.monash.edu.my/staff/Professor-Sadequr-Rahman.html</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

My interest is in the genetics, metagenomics and genomics of tropical organisms. In terms of rice we are interested in genes and genomics that affect grain utilization and productivity. For birds we are interested in population genetics for conservation and natural history. I am also developing interests in other tropical organisms, including bacteria.

**List up to 10 of your most recent or most important papers, giving the full citation**

DOI: 10.1093/jxb/err188


How many publications, in total, have you published?
75 (refereed journals).

List any patents you have registered
10 (in earlier employment).
4.2.36 Dr. Santha Vaithilingam

Institution | Monash University Malaysia
School/Department/Faculty | Department of Econometrics and Business Statistics, School of Business
Main Research Area(s) | Applied Econometrics, Behavioral economics and Technology adoption models
Name | Associate Professor Santha Vaithilingam
EMAIL | Santha.vaithilingam@monash.edu
URL | http://www.buseco.monash.edu.my/school-staff/Santha-Vaithilingam-Assoc.-Prof.html

Give a brief description of your research interests and/or expertise

My research interests are in applied econometrics, behavioral research and development economics. I am currently pursuing research on modeling human behavior pertaining to the adoption and use of technologies in organizations and society using advanced econometrics techniques. I am interested in various types of technology with particular interest in information and communication technologies and social networks. I am also involved in a project on assessing the knowledge content of firms in Malaysia. Jointly working with Centre of Policy Studies, Monash University Australia, I assisted in the development of the Malaysian Dynamic Computable General Equilibrium model for macroeconomic and industrial policy formulation for the Ministry of Finance, Malaysia.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

>37 papers including conference proceedings and book chapters

List any patents you have registered

0
### 4.2.37 Dr. Satoshi Ogawa

<table>
<thead>
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<th>Institution</th>
<th>Monash University Malaysia</th>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Medicine/Brain Research Institute</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Neuroscience</td>
</tr>
<tr>
<td>Name</td>
<td>Satoshi Ogawa</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Satoshi.ogawa@monash.edu">Satoshi.ogawa@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
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</table>

**Give a brief description of your research interests and/or expertise**

Drug abuse and addiction remain great challenges to public health agendas in the world. It represents a complex brain disorders characterized by compulsive drug use that can lead to dysregulation of brain regions mediating reward and stress. A major problem in treating drug addiction is the withdrawal syndrome, which can lead to unwanted relapse. Current medications available to treat drug withdrawal and to prevent relapse involves administration of stimulant-like medications, however these candidate medicine reported possess high abuse liability. The negative emotional state of drug withdrawal and the emotional memories of protracted abstinence are hypothesized to combine to exacerbate relapse and the addiction process. The emergence of depressive symptoms, including social withdrawal, is considered a main cause for relapse, but underlying mechanisms are poorly understood. My current research aims is to understand the neural mechanism linking emotion and addiction utilizing molecular morphology, optogenetics and neuroimaging approaches.

**List up to 10 of your most recent or most important papers, giving the full citation**

MyMentor
Capability Statement

5. Parhar IS, Ogawa S, Sakuma Y (2004) Laser captured single digoxigenin-labeled neurons of
Gonadotropin-releasing hormone types reveal a novel G protein-coupled receptor (GPR54)
7. J Biran, M Golan, N Mizrahi, S Ogawa, IS Parhar, B Levavi Sivan (2014) LPXRFa, the
Piscine Ortholog of GnIH, and LPXRF Receptor Positively Regulate Gonadotropin Secretion
in Tilapia (Oreochromis niloticus). Endocrinology (in press).
of Gonadotropin Release by Neurokinin B in Tilapia (Oreochromis niloticus). Endocrinology
(in press).
Sci. USA. 102: 2204-2209.
10. Parhar IS, Soga T, Ogawa S, Ogawa S, Pfaff DW, Sakuma Y (2005) Nonmammalian forms of
gonadotropin- releasing hormone molecules in the brain of promoter transgenic rats.

How many publications, in total, have you published?
30 papers

List any patents you have registered
1. Use of kisspeptin and its agonist to overcome fear, Applied (2013)
2. Tilapia Kiss2, novel amino sequence substitutions affecting bioefficacy, Applied (2013)
3. Development of Marker Gene for Genetic Improvement in Fish Reproduction, Applied
(2013)
4.2.38 Dr. Sharifah Syed Hassan

<table>
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<tr>
<td>School/Department/Faculty</td>
<td>Medicine and Health Sciences</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Virology/molecular virology</td>
</tr>
<tr>
<td>Name</td>
<td>Assoc Prof Dr. Sharifah Syed Hassan</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:sharifah.syedhassan@monash.edu">sharifah.syedhassan@monash.edu</a>.</td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.med.monash.edu.my/staff/academic/microbiology/sharifah-syed-hassan">http://www.med.monash.edu.my/staff/academic/microbiology/sharifah-syed-hassan</a></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise

Joined Monash as an academician from the My research experiences and expertise are in areas of avian and mammalian virological diagnostics, animal viral vaccine production and research. Current main research areas are in viral-host protein interactions studying specific functions of viral and cellular host genes, using basic virological techniques, genomics, transcriptomic, microRNA and recombinant DNA technologies, viral and host gene discovery for the development of novel diagnostic reagents/systems and antiviral therapy. Currently, research is based on dengue and avian influenza viruses. The highlight of one of our project is a longitudinal multidisciplinary research on dengue viral infections in a community in Malaysia where we hope to unravel some more new linkages between infections-host-viral genetics-environment-mosquito. For this community based project, our capabilities and expertise include virological and molecular virological techniques and state-of the art techniques for diagnosis, studying host-viral protein interactions and relationships, epidemiology, genetics, public health, clinical aspects of disease management and control and project management.

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

40

List any patents you have registered

0
4.2.39 Dr. Shogo Moriya

<table>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>Brain Research Institute</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Brain research, brain aging, neurodegenerative disease, molecular biology</td>
</tr>
<tr>
<td>Name</td>
<td>Senior Research Fellow Shogo Moriya</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:moriya.shogo@monash.edu">moriya.shogo@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.med.monash.edu.my/brims/">http://www.med.monash.edu.my/brims/</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

For neurodegenerative diseases such as Alzheimer’s disease and Parkinson’s disease, aging is the largest risk factor. Ageing affects many cellular processes and age-related changes in cells cause pathogenesis of the neurodegenerative diseases. I clarify the pathogenesis of the neurodegenerative diseases through analyzing functions of age-related genes using molecular biological techniques, such as gene expression, a single-cell technology, transcriptome and transgenic creation.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published? 28

List any patents you have registered

6. Bacteria detecting instrument, bacteria detecting method, and bacteria detecting kit. Publication number: WO2005108599 (Japan), AU2005214262 (Australia), CA2559952 (Canada), CN1926245 (China), EP1726662 (Europe), KR20070011333 (Korea), US2005272062 (USA).
8. Oligonucleotides, arrays thereof for detecting microorganisms, and an apparatus, a method...
and a kit for detecting microorganisms. Publication number: JP2009504134 (Japan), AU2006280651 (Australia), CA2619743 (Canada), CN101300362 (China), EP1926832 (Europe), KR20080049044 (Korea), US2009048118 (USA).

4.2.40 Dr Siow Lee Fong

<table>
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<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Microencapsulation &amp; controlled release, frozen food chemistry</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Siow Lee Fong</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:siow.lee.fong@monash.edu">siow.lee.fong@monash.edu</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My research interests lie in finding suitable techniques to encapsulate bioactive active compounds and understanding their release behavior and mechanisms. I am interested in testing the microencapsulated compounds in vitro to determine the release efficacy of the microencapsulated bioactive compounds/drug.
I am also interested in understanding the freezing kinetics and physicochemical changes of frozen food products.

**List up to 10 of your most recent or most important papers, giving the full citation**

1. Ee-Tein Tee & Lee-Fong Siow (2014). Physical and sensory properties of frozen Spanish Mackerel (Scomberomorus guttatus) Fish Balls added with Cryoprotectants, Food and Bioprocess Technology, DOI 10.1007/s11947-014-1348-0.


How many publications, in total, have you published?

16

List any patents you have registered

N/A
4.2.41  Professor . Sunil K. Lal

Institution
Monash University Malaysia

School/Department/Faculty
School of Science

Main Research Area(s)
Host-virus interactions; Molecular biology of Infectious diseases

Name
Prof. Sunil K. Lal

EMAIL
sunil.lal@monash.edu

URL

Give a brief description of your research interests and/or expertise

Our Influenza A virus (IAV) research program focuses on:

1. Molecular studies on the innate immune responses and their downstream effectors mainly interferon stimulated genes (ISGs). Interferon A induces more than 300 ISGs that control host cell death and survival pathways upon viral infection.

2. IAV nucleoprotein (NP) interacts with Hsp40, and is responsible for P58IPK release which in turn leads to downregulation of PKR and eIF2a phosphorylation [PLoS ONE (2011)6(6):e20215]. We have demonstrated a novel role of IAV NP in inhibiting PKR mediated anti-viral host response that ensures continued viral mRNA translation.

3. Apoptosis induction is another anti-viral host response; however IAV infection promotes host cell death. The NP of IAV is known to contribute to viral pathogenesis but its role in virus induced host cell death was hitherto unknown. We showed that NP contributes to IAV infection induced cell death and can induce apoptosis in human airway epithelial cells via the human anti-apoptotic protein Clusterin (CLU) and Bax pathways [Cell Death Dis.(2013)4:e562]. Collectively, these findings indicated a new function for IAV NP in inducing host cell death and a role for the host anti-apoptotic protein Clusterin.

4. Activation of Akt plays a major role in modulating diverse downstream signaling pathways that control cell survival, proliferation and apoptosis. The neuraminidase (NA) protein of IAV is involved in virus release however we have recently discovered that NA also enhances cell survival by activating the Akt pathway via Src signaling and directly interacting with host CEACAM6 (carcinoembryonic cell adhesion molecule) [J. Biol. Chem. (2012) 287:15109-15117].

5. We identified α-actinin-4, a host cytoskeletal protein, as an interaction partner of IAV NP and found that actinin-4 is required for viral replication and is essential for nuclear-cytoplasmic shuttling of NP (FEBS J. (2014) 281:2899-914).
MyMentor
Capability Statement

List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?

90

List any patents you have registered

1
4.2.42 Dr. Tam Cai Lian

Institution
Monash University Malaysia

School/Department/Faculty
Jeffrey Cheah School of Medicine and Health Sciences

Main Research Area(s)
My core research interests focus on describing the variety of challenges adolescents face in modern Malaysia including substance abuse, diabetic management, mental health issues, and online counselling.

Name
Dr. Tam Cai Lian

EMAIL
tam.cai.lian@monash.edu

URL
http://www.med.monash.edu.my/staff/academic/psychology/tam-cai-lian

Give a brief description of your research interests and/or expertise

I am actively involved in publishing academic articles and book chapters. I am also a regular contributor to popular magazines and newspapers, writing commentary on mental health issues in both Malay and Mandarin. My ongoing goal is to continue to publish at least 4-5 journal articles per year and maintain significant external grant funding. I am passionately dedicated to my work in supervising PhD students. I am currently involved in the supervision of 9 HDR students (5 as main supervisor, 4 as co supervisor) and plan to continue this level of supervisory involvement. I have the passion and expertise in exploring the health and psychological issues which include investigating:

- Diabetic health knowledge, beliefs, and lifestyle among sociocultural groups in Malaysia
- Drug abuse relapse in Malaysia: Contributory factors and treatment effectiveness
- The effects of online counselling on students mental health and wellbeing
- The role of emotion regulation in adolescent self-injury
- The importance of diet and physical exercise

List up to 10 of your most recent or most important papers, giving the full citation


**How many publications, in total, have you published?**
I have excelled in research output by publishing 38 refereed journal articles from January 2008 through October 2014.

**List any patents you have registered**
0
### 4.2.43 Professor Tey Beng Ti

<table>
<thead>
<tr>
<th>Institution</th>
<th>Monash University Malaysia</th>
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</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Engineering</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Bioseparation, Biosensor, Drug delivery, Smart material, Fermentation, Bioresource Technology</td>
</tr>
<tr>
<td>Name</td>
<td>Professor Tey Beng Ti</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:tey.beng.ti@monash.edu">tey.beng.ti@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.eng.monash.edu.my/about-us/who-we-are/academic-staff#/adminpanel/users/info.php?id=166">http://www.eng.monash.edu.my/about-us/who-we-are/academic-staff#/adminpanel/users/info.php?id=166</a></td>
</tr>
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</table>

**Give a brief description of your research interests and/or expertise**

Smart or stimuli-responsive hydrogels undergo abrupt changes in volume and structure in response to environmental changes, such as pH, temperature, electric field, antigen/antibody etc. Our current research focuses are utilizing these fascinating properties of stimuli-responsive hydrogels and polymers for various biomedical applications such as smart biosensor systems, targeted drug delivery and protein separation. The critical challenges of biosensor development are reduction in detection time, minimizing sensor size, simplifying fabrication, and developing more accurate and reliable protocol. Antigen-antibody stimuli-responsive hydrogels can be used as biosensor platform to detect antigen/antibody. An ideal protein drug delivery system should have controlled-release of the encapsulated drug at the targeted site of action and protect them from proteolytic degradation and acid hydrolysis. pH stimuli-responsive hydrogels can be used to design an oral protein drug delivery system. In addition, the pH and temperature responsiveness of the smart polymer can be used as salt and solvent free environmental friendly chromatographic matrix media for protein purification.

**List up to 10 of your most recent or most important papers, giving the full citation**

2. Lim HP, Tey BT, Chan ES (2014) Particle designs for the stabilization and controlled-delivery of protein drugs by biopolymers: A case study on insulin. Journal of Controlled Release 186:11–21
3. Tou BSY, Neo KE, Tey BT, Ng MYT (2014) Effect of phase inversion and separation on hepatitis B core antigen extraction from unclarified bacterial feedstock using aqueous two-
phase system. Separation and Purification Technology 130: 45-55.

How many publications, in total, have you published?

>100

List any patents you have registered

1. Recovery Process for Recombinant Hepatitis B Core Antigen. (PI 20080736)
2. Method for Quantitation of Recombinant GFP. (MY-146629-A)
3. A Method for Purifying the Nucleocapsid Protein of Nipah Virus. (PI20093263)
4. A Method for Purification of Intracellular Protein. (PI 20094405)
5. A Method to Purify Recombinant Nucleocapsid Protein of Nipah Virus using Hydrophobic Interaction Chromatography. (PI 20094406)
6. Hepatitis B Core Particles with His Tags. (PI 20094721)
7. Recombinant Matrix Protein of Nipah virus. (PI 20094724)
8. Lipase Production and Purification (MY147445A)
4.2.44 Dr. Tomoko Soga

<table>
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<tr>
<td>School/Department/Faculty</td>
<td>Brain Research Institute, School of Medicine and Health Sciences</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Neuroscience</td>
</tr>
<tr>
<td>Name</td>
<td>TOMOKO SOGA</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Tomoko.soga@monash.edu">Tomoko.soga@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.med.monash.edu.my/brims/">http://www.med.monash.edu.my/brims/</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Social neglect, abuse or trauma during early-life has serious consequences for the development of psychopathologies. It has been suggested that early-life social stress causes mental disorder such as anxiety and depression with abnormal neuronal activation. I study the neural basis of early life stress induced depression. I use multiple biological approaches which include using transgenic animal models. Last year, we found that impact of early life stress on the expression of neuropeptides (Gonadotropin-releasing hormone (GnRH) and Gonadotropin-inhibitory hormone (GnIH)) in the brain and emotional behavior such as anxiety and depression. I also study the epigenetic mechanisms of neuronal marker molecules for early life stress induced depression in transgenic rats and serotonergic regulation. My final research goal is to find susceptibility genes and molecular mechanisms underlying the pathogenesis of mental disorders, which will lead to the development of new diagnostic measurements and treatments.

**List up to 10 of your most recent or most important papers, giving the full citation**

4. Tomoko Soga, Dutt Way Wong, Iain J. Clarke and Ishwar S. Parhar. Citalopram

How many publications, in total, have you published?
26
List any patents you have registered
2 (submitted in 2013)
4.2.45 Dr. Uma Devi Palanisamy

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<tr>
<td>School/Department/Faculty</td>
<td>Medicine and Health Sciences</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Natural Product Drug Discovery: Purification and characterisation of plant bioactives, in vitro and in vivo assays related to diabetes and obesity.</td>
</tr>
<tr>
<td>Name</td>
<td>Associate Prof Uma Devi Palanisamy</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:umadevi.palanisamy@monash.edu">umadevi.palanisamy@monash.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.med.monash.edu.my/staff/academic/biomedical-science/uma-devi-palanisamy">http://www.med.monash.edu.my/staff/academic/biomedical-science/uma-devi-palanisamy</a></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise

- Identify and evaluate bioactives from natural sources for its potential health benefits, with particular interest in plant bioactives for diabetes and obesity.
- Screening of local natural resources for cosmeceutical, nutraceutical and pharmaceutical content and develop medium-throughput screening techniques to aid the growth of the natural product research in Malaysia
- Purification and characterisation of bioactives from various plant sources intended
- Physico-chemical properties of bioactives
- Computational and combinatorial chemistry tools to aid drug discovery

List up to 10 of your most recent or most important papers, giving the full citation


03 November 2014 (Vers 1.01)


Shonia Subramaniam, Srikumar Chakravarthi, Uma Devi Palanisamy, Ammu Radhakrishnan and Nagaraja Haleagrahara. Acute and Sub Chronic Oral Toxicity Assessment of the Ethanolic Extract from the Rind of Nephelium lappaceum in Rats. Journal of Pharmacology and Toxicology 2012, 7 (8), 378-385


How many publications, in total, have you published?
More than 70

List any patents you have registered

- Malaysian Patent Filed:Syzygium aqueum extracts for cosmeceutical and nutraceutical applications (2008)-PI 20080735
- Malaysian Patent Filed: Method and use of plant extract to stabilise oil: PI 2010000206
## 4.2.46 Dr Varghese Swamy

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<td>School of Engineering</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Nanoscale materials, energy, advanced experiments, and computational materials research</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Varghese Swamy</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:varghese.swamy@monash.edu">varghese.swamy@monash.edu</a></td>
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<td><a href="http://www.eng.monash.edu.my/about-us/who-we-are/academic-staff">http://www.eng.monash.edu.my/about-us/who-we-are/academic-staff</a></td>
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</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My current research interests are in the applications of materials for energy and environmental solutions. Special emphasis is on nanomaterials (size-dependent phenomena, properties, and applications). Currently we are looking into materials for hybrid sensitized solar cells, catalysis, as well as understanding nanomechanical properties and their applications in micro-devices. My expertise covers both experimental (laboratory and synchrotron x-ray diffraction, spectroscopy, in situ characterizations) and computational (thermodynamic, atomistic, and first principles quantum mechanical calculations) investigations.

**List up to 10 of your most recent or most important papers, giving the full citation**


**How many publications, in total, have you published?**

~50 articles. ~30 conference presentations, 15 reports.

**List any patents you have registered**

None.
4.2.47  Dr. Wang, Xin

<table>
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<td>School of Engineering</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Non-destructive evaluation, optical measurement, computer vision, finite element analysis</td>
</tr>
<tr>
<td>Name</td>
<td>Wang, Xin</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:wang.xin@monash.edu">wang.xin@monash.edu</a></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise

- Optical methods in micro, nano and bio-mechanics, on-line structural health monitoring
- Failure assessment and fitness for service evaluation of aging equipment
- Ultrasound in solids, nondestructive testing and evaluation of materials
- Structural Analysis of Composite Structures, Finite Element Applications in Engineering
- 3D Imaging

List up to 10 of your most recent or most important papers, giving the full citation

and Technology, 3(11), 1320-1324, 2011. (ISSN: 2040-7459)


How many publications, in total, have you published?
>40

List any patents you have registered
0
4.3 University of Southampton Malaysia Campus

Prof. J.W. McBride
Dr. Jo-Han Ng
Dr. Low Siow Yong
Dr. Mihai Dragos Rotaru
Dr. Neil Gordon Stephen
Dr. Seung Hwan Won
Dr. Stuart C. Clarke
Dr. William R. Birch
4.3.1 Prof. J.W. McBride

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Southampton Malaysia Campus</th>
</tr>
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<tr>
<td>School/Department/Faculty</td>
<td>Engineering</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Electrical Contact Physics, Surface Characterization and metrology, Arcing devices, contact mechanics, Nano-contacts and nano-metrology.</td>
</tr>
<tr>
<td>Name</td>
<td>Prof. J. W. McBride</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:jwm@soton.ac.uk">jwm@soton.ac.uk</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.southampton.ac.uk/engineering/about/staff/jwm.page">http://www.southampton.ac.uk/engineering/about/staff/jwm.page</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

John McBride is an expert on electrical contact physics and surface characterisation; he has published over 200 papers, 3 patents, and is an associate editor of the IEEE Transactions on Components and Packaging and Manufacturing Technology (CPMT). As Principle Investigator, (PI) he has completed research projects in excess of £7.5 Million and supervised as chair over 20 Ph.D students. He has chaired sessions and acted on the organising committees of numerous international conferences. He is currently the Technical Chair for the 2016 International Conference on Electric Contacts. In 2006 he was awarded the IEEE Holm Scientific Achievement Award, an international award recognising outstanding scientists and engineers in the field of electric contacts or related technologies. In 2008 he was awarded the international James A. Lindner Prize for research on the “Sound Archive Project”. In 2001 he established the spin out company TaiCaan Technologies Ltd. a world leader in optical surface profiling.

Current research interests include:
- Optical and X-Ray surface nano-metrology.
- MEMs relay design and switching performance
- High Current Arc modelling and imaging.
- Carbon Nano-Tube structures for switching and sensing applications.
- Contact Mechanics

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
>200

List any patents you have registered
2, I have two spin out companies based on research.
### 4.3.2 Dr Jo-Han Ng

<table>
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<tr>
<td>School/Department/Faculty</td>
<td>Faculty of Engineering and Environment</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Biodiesel, Combustion, Computational Fluid Dynamics, 0D/1D Engine System Modelling, Transesterification, Chemical Kinetics</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Jo-Han Ng</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:J.Ng@soton.ac.uk">J.Ng@soton.ac.uk</a></td>
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<tr>
<td>URL</td>
<td><a href="http://www.southampton.ac.uk/my/about/staff/jn4r11.page">http://www.southampton.ac.uk/my/about/staff/jn4r11.page</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

Malaysia has an abundance of palm oil which has been strategically earmarked as one of the economic pillars of the nation. Among the many uses of palm oil, biodiesel represents an exciting frontier for research, especially so after Malaysia has mandated the use of B5 in diesel blends (i.e. 5% of all diesel vehicle would be powered by biodiesel on a volumetric basis). It would be in the benefit of the nation to be researching on palm biodiesel, and for that we have experience in (published reference in parenthesis):

- Combustion study of biodiesel [3,6-9]
- Chemical kinetics – surrogate biodiesel fuel [4]
- Computational fluid dynamics study on combustion chamber [5]
- 0D/1D engine system level modelling [1]
- Novel reactors for the transesterification of palm biodiesel [FRGS grant]
- Social policies related to biodiesel [2,10]

In all, we try to fill up application niches which are pertinent to the economy of Malaysia, yet without neglecting the fundamentals associated with the underlying science behind the phenomena.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
10 (2 reviewed)
- Cumulative Impact Factor, CIF of 24.082 (Average IF of 3.01 per publication)
- > 85% of publication indexed by ISI are in Tier I Journals.

List any patents you have registered
0
4.3.3 Dr Low Siow Yong

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Southampton Malaysia Campus (USMC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>School/Department/Faculty</td>
<td>School of Electronics and Computer Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Signal processing</td>
</tr>
<tr>
<td>Name</td>
<td>Low Siow Yong</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:sy.low@soton.ac.uk">sy.low@soton.ac.uk</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.southampton.ac.uk/my/about/staff/siow_yong_low.page">http://www.southampton.ac.uk/my/about/staff/siow_yong_low.page</a></td>
</tr>
</tbody>
</table>

Give a brief description of your research interests and/or expertise

Siow Yong’s research focuses on the mathematical manipulation of acoustics signals with applications to assistive listening devices and hearing aids. One example is speech enhancement, where noisy speech signal can be processed in such a way that the noise component is reduced. The challenge of speech enhancement is its application in a social setting, e.g., cafeteria noise, where the noise is highly non-stationary. His research interests broadly revolve around speech applications as follows:

- Microphone arrays processing
  - Blind signal separation
  - Beamforming
- Single microphone processing
  - Noise estimation techniques
  - Compressed sensing
- Echo cancellation
  - Double talk detection

Apart from academic research, his expertise has led to consultancy work for the hearing protection industry (www.sensear.com) and forensic audio analyses for the Northam Police Dept and the Organised Crime Squad, WA Australia. See also http://scholar.google.com.my/citations?user=flF2umAAAAAJ&hl=en&oi=ao, for a complete range of research expertise.

03 November 2014 (Vers 1.01)
List up to 10 of your most recent or most important papers, giving the full citation


How many publications, in total, have you published?
>40

List any patents you have registered
### 4.3.4 Dr Mihai Dragos Rotaru

<table>
<thead>
<tr>
<th>Institution</th>
<th>University of Southampton Malaysia Campus</th>
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</thead>
<tbody>
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<td></td>
<td>Faculty of Physical Sciences and Engineering</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Applied Electromagnetics, Electromagnetic metamaterial, Wireless Power Transfer, Smart Grid</td>
</tr>
<tr>
<td>Name</td>
<td>Mihai Dragos Rotaru (Associate Professor)</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:mr@ecs.soton.ac.uk">mr@ecs.soton.ac.uk</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.ecs.soton.ac.uk/people/mr">http://www.ecs.soton.ac.uk/people/mr</a></td>
</tr>
</tbody>
</table>

**Give a brief description of your research interests and/or expertise**

My research interests lie in the broad area of applied electromagnetism, in particular computational electromagnetics, simulation and design of electromagnetic metamaterials and their applications. I have very keen interest in fast and efficient numerical methods that can be applied in electromagnetics. I have a good experience in the design and modeling of RF and high speed electronic packaging, as I work for six years in solving challenging signal and power integrity problems.

I am interested in involved in many aspects of electrical power engineering and in the new paradigm shift that take place in electric power industry towards a smarter and more efficient grid. This huge change in the way electrical power will be produce, distributed, stored and consumed will affect almost all aspects of modern life. My expertise and knowledge in applied electromagnetics will be central to technologies that will be developed and used in the new smart grid.

**List up to 10 of your most recent or most important papers, giving the full citation**

1. Analysis and suppression of SSN noise coupling between power/ground plane cavities through cutouts in multilayer packages and PCBs J Lee, MD Rotaru, MK Iyer, H Kim, J Kim Advanced Packaging, IEEE Transactions on 28 (2), 298-309, 2005, Citation (31)
2. Three-dimensional system-in-package using stacked silicon platform technology V Kripesh, SW Yoon, VP Ganesh, N Khan, MD Rotaru, W Fang, MK Iyer Advanced Packaging, IEEE Transactions on 28 (3), 377-386, 2005, Citation (52)
3. Implementation of packaged integrated antenna with embedded front end for Bluetooth applications M Rotaru, LY Ying, H Kuruvetteil, Y Rui, AP Popov, C Chee-Parrn Advanced Packaging, IEEE Transactions on 31 (3), 558-56, 2008 Citation (15)

4. Improved sensitivity of terahertz label free bio-sensing application through trapped-mode resonances in planar resonators MD Rotaru, JK Sykulski Magnetics, IEEE Transactions on 47 (5), 1026-1029, 2011 Citation (4)

5. Optimisation of a tubular linear machine with permanent magnets for wave energy extraction TS Parel, MD Rotaru, JK Sykulski, GE Hearn COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, Citation (2)


7. Exploration versus exploitation using kriging surrogate modelling in electromagnetic design S Xiao, M Rotaru, JK Sykulski COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, Citation (7)

8. Adaptive weighted expected improvement with rewards approach in Kriging assisted electromagnetic design S Xiao, M Rotaru, JK Sykulski IEEE Transactions on Magnetics 49 (5), 2057-2060, 2013, Citation (8)

9. Electromagnetic Simulations of a Fully Superconducting 10-MW-Class Wind Turbine Generator, Y Liang, MD Rotaru, JK Sykulski Applied Superconductivity, IEEE Transactions on 23 (6), 5202805-5202805, 2013, Citation (2)

10. Numerical and experimental study of the effects of load and distance variation on wireless power transfer systems using magnetically coupled resonators M Rotaru, R Tanzania, R Ayoob, TY Kheng, JK Sykulski IET, 2014, Citation (1)

**How many publications, in total, have you published?**

>80

**List any patents you have registered**

4
### 4.3.5 Dr. Neil Gordon Stephen

<table>
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</tr>
</thead>
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<tr>
<td>School/Department/Faculty</td>
<td>Faculty of Engineering &amp; the Environment</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Theory of Vibration, Elasticity, Repetitive Structures</td>
</tr>
<tr>
<td>Name</td>
<td>Neil Gordon STEPHEN</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:ngs@soton.ac.uk">ngs@soton.ac.uk</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Professor Stephen’s research interests are mainly in the statics and dynamics of structures. This includes the vibration of Timoshenko beam structures, the statics and dynamics of repetitive structures, end effects (Saint-Venant’s principle) and the applications of Transfer Matrix theory. His work is mainly theoretical, but includes finite element modelling and MATLAB simulations. His 2006 publication “On energy harvesting from ambient vibration” was awarded the first P.E. Doak prize for academic achievement. It was the most highly-cited paper in the Journal of Sound and Vibration over a five-year period, and currently has over 380 citations.

**List up to 10 of your most recent or most important papers, giving the full citation**


A full list is available on http://scholar.google.co.uk/citations?user=4tAQTNAAAAJ&hl=en

How many publications, in total, have you published?
75

List any patents you have registered
0
4.3.6 Dr. Seung Hwan Won

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<td>School/Department/Faculty</td>
<td>School of Electronics and Computer Science</td>
</tr>
<tr>
<td>Main Research Area(s)</td>
<td>Mobile communication: 4G &amp; 5G system design and algorithm development</td>
</tr>
<tr>
<td>Name</td>
<td>Associate Professor Seung Hwan Won</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:S.Won@soton.ac.uk">S.Won@soton.ac.uk</a></td>
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<td><a href="http://www.southampton.ac.uk/my/about/staff/sw6f12.page">http://www.southampton.ac.uk/my/about/staff/sw6f12.page</a></td>
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</table>

**Give a brief description of your research interests and/or expertise**

Since the advent of successful mobile communication systems, Long Term Evolution-Advanced (LTE-A) system is currently flourishing around the globe. Nowadays, many of international research societies are highly interested in beyond LTE and MilliMetre Wave (mmW) mobile communication systems as a strong candidate of 5G mobile communication system to provide achievable data rate of Gbps. Hence, our research interests encompass (1) synchronisation (including cell search schemes) and (2) estimation schemes (including speed, location, and channel status) in diverse cooperative MIMO-aided multi-carrier systems and MIMO-aided mmW mobile broadband communication systems. As examples of our research plan, with the aid of over eight year industrial research experiences gained at both LG and Samsung Electronics, feasible solutions and their possibilities of extensive cell search and key parameter estimation schemes will be investigated thoroughly in terms of both theoretical and practical implementation. And this achievement is capable of taking the initiative over other 5G research activities.

**List up to 10 of your most recent or most important papers, giving the full citation**


How many publications, in total, have you published?
25

List any patents you have registered
19 (List of US patents)
1. 20140254580 A1, Method and apparatus for acquiring synchronization in code division multiple access system, Date issued: Sep. 11, 2014
2. 8804597 B2, Apparatus and method for adding and deleting relay link in communication system, Date Issued: Aug. 12, 2014
3. 8,724,685 B2, Apparatus and method for interference cancellation in MIMO wireless communication system, Date Issued: May 13, 2014
4. 8363701 B2, Method and apparatus for receiving signal in wireless communication system, Date Issued: Jan. 29, 2013
5. 20110038407 A1, Equalizer receiver in a mobile communication system and method therefore method, Date Issued: Feb. 17, 2011
6. 8194621, Method of allocating uplink transmission channels in a communication system Date Issued: June 5, 2012
7. 8139549, Method of scheduling an uplink packet transmission channel in a mobile communication system, Date Issued: March 20, 2012
8. 8098762, Method and apparatus for transmitting/receiving signals in multiple-input multiple output communication system provided with plurality of antenna elements, Date Issued: January 17, 2012
9. 8099919, Packet transmission acknowledgement in wireless communication system, Date Issued: January 3, 2012
10. 8059771, Method and system for transmitting and receiving data streams, Date Issued: November 15, 2011
11. 7929493, Method of scheduling for enhanced dedicated channel (E-DCH), Date Issued: April 19, 2011
12. 7599440, Downlink control channel allocation method in mobile communication system, Date Issued: OCT/06/2009
13. 7433328, Packet transmission method, Date Issued: OCT/07/2008
14. 7394790, Packet data transmitting method and mobile communication system using the same, Date Issued: JUL/01/2008
15. 7353025, Uplink scheduling method of wireless mobile communication system, Date Issued: APR/01/2008
16. 7349374, Uplink transmission power control in wireless communication system, Date Issued: MAR/25/2008
17. 7343176, Node B scheduling method for mobile communication system, Date Issued: MAR/11/2008
18. 7315748, Method of informing uplink synchronization using downlink TPC bit patterns, Date Issued: JAN/01/2008
19. 7269436, Method and apparatus of allocating power in multiple-input multiple-output communication system, Date Issued: SEP/11/2007
4.3.7 Dr. Stuart C. Clarke

<table>
<thead>
<tr>
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<tr>
<td>School/Department/Faculty</td>
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<tr>
<td>Main Research Area(s)</td>
<td>Infectious disease epidemiology, Vaccines, Respiratory infections, Meningitis, Sepsis</td>
</tr>
<tr>
<td>Name</td>
<td>Dr Stuart C. Clarke</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:s.c.clarke@southampton.ac.uk">s.c.clarke@southampton.ac.uk</a></td>
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<td><a href="http://www.southampton.ac.uk/medicine/about/staff/scc1.page">http://www.southampton.ac.uk/medicine/about/staff/scc1.page</a></td>
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**Give a brief description of your research interests and/or expertise**

Dr Clarke is an Associate Professor and Honorary Consultant in Health Protection. He has a major interest in the epidemiology of infectious diseases, particularly in relation to vaccine development and the evaluation of new vaccines. He works mostly with Streptococcus pneumoniae, but also Neisseria meningitidis, Haemophilus influenzae and Staphylococcus aureus. He is also a member of the Biofilm and Microbial Communities group where he provides an essential link between epidemiology and microbial communities; his research uses postgenomic technologies to explore the relationships at the genomic level with antibiotic resistance, virulence potential and disease potential in microorganisms that cause respiratory disease. His work takes place in the UK, Malaysia and Singapore. He holds the position of Visiting Professor at the Faculty of Medicine, Universiti Teknologi MARA and is an Adjunct Associate Professor at the School of Medicine, National University of Singapore.

**List up to 10 of your most recent or most important papers, giving the full citation**

2. Tocheva AS, Jefferies JM, Christodoulides M, Faust SN, Clarke SC. Distribution of carried pneumococcal clones in UK children following the introduction of the 7-valent pneumococcal conjugate vaccine: a 3-year cross-sectional population based analysis. Vaccine 2013; 31: 3187-90.


How many publications, in total, have you published?
90 peer-reviewed research papers, 29 reviews, 3 book chapters, one sole author book and approximately 100 miscellaneous scientific articles.

List any patents you have registered
0
<table>
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<tr>
<td><strong>School/Department/Faculty</strong></td>
<td>Faculty of Engineering and Environment</td>
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<tr>
<td><strong>Main Research Area(s)</strong></td>
<td>Materials for biomedical applications: biodegradable microcarriers, stem cell processing. Marine macrofoulers on engineered surfaces.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Dr. William R. Birch</td>
</tr>
<tr>
<td><strong>EMAIL</strong></td>
<td><a href="mailto:W.Birch@soton.ac.uk">W.Birch@soton.ac.uk</a></td>
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</tr>
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</table>

**Give a brief description of your research interests and/or expertise**

The engineering materials and their surface properties for cell culture and processing is an enabling technology for future therapeutic applications, which are expected to rely on mesenchymal stem cells. Implementing bioimplantable and resorbable scaffolds and cell expansion supports offers a further performance enhancement, for tissue engineering. Our work combines materials science, stem cell biologists, and clinicians, forming multidisciplinary teams. Where tunable and characterized material properties may be achieved, the bioresponse of organisms provides an essential feedback loop. This quantifiable measure of performance is not only critical in-vitro and in-vivo, but may also be applied to the interaction of marine macrofouler larvae with substrates that are subject to colonization. The latter offers insights for engineering materials that deter (or attract) marine fouling in tropical and temperate waters.

**List up to 10 of your most recent or most important papers, giving the full citation**


03 November 2014 (Vers 1.01)  Page 233
Stem Cells and Development, 23 (2014) 1688. (Article featured on cover page of Stem Cells and Development)


How many publications, in total, have you published?

23 articles, 347 citations, h-index of 11

List any patents you have registered

Published (pending patents are not listed):


