

Information Technology at James Cook University in Singapore



Introduction

Research in Information Technology

Information Technology has been a saviour for many problems in the world. It leverages analytical capabilities and efficient processing capabilities to provide solutions in various forms such as the Internet of Things (IoT), robotics and game design, among others. Information Technology research at James Cook University in Singapore is vibrant and varied, spreading across game design and development, machine learning to help alleviate rural poverty and health, or innovative methods for software design.

James Cook University, strategically located in northern Australia and Singapore, especially focuses on tropical issues. James Cook University in Singapore researchers partner with industry, government bodies, universities and other stakeholders to conduct high quality research which contributes to tropical societies and more broadly to societies worldwide.

For further information or expression of interest to collaborate with James Cook University in Singapore, or to pursue a higher degree by research with us, please send an email to researchsupport-singapore@jcu.edu.au.



Profile



Dr Roberto Dillon

Associate Professor, Information Technology
James Cook University in Singapore

PhD, Electrical & Computer Engineering, University of Genoa, Italy
Meng, Electrical and Electronics Engineering, University of Genoa, Italy

Background

Originally from Genoa (Italy) but based in Singapore since 2005, Dr Roberto Dillon holds a PhD in Computer Engineering from the University of Genoa and a postgraduate level certificate in Cybersecurity from the Rochester Institute of Technology. He is the author of several books published by AKPeters, CRC Press and Springer, besides many book chapters and papers published in peer-reviewed conference proceedings and academic journals.

A speaker at the most important game industry conferences (GDC in San Francisco, Game Connection in Paris, CGDC in Shanghai, GMGC in Beijing etc.) as well as at more general events (TEDx in Milan), Dr. Dillon is an (ISC)² Member and an IEEE Senior Member with cross-disciplinary research interests spanning serious games (health, training), VR/AR, history of technology, and behavioral analytics/machine learning applied to cybersecurity.

In his first book, "On the Way to Fun" (AKPeters, 2010), he proposed the 6-11 Framework, a game analysis methodology that is now referenced within the curricula of several universities around the world, while his latest book, "The Hacker's Zibaldone", is a holistic introduction to the fascinating and challenging world of cybersecurity.

As a Principal Investigator/Researcher, he led teams in projects receiving funding for more than \$1 million while, as a software developer, he also worked on large-scale, government-commissioned projects. As an independent game developer, his games were selected for showcase at international festivals like 'Sense of Wonder Night' in Tokyo and 'FILE Games' in Rio de Janeiro, besides reaching top positions on Apple's AppStore and Google Play across different countries and categories.

Dr Dillon was also featured in the documentary "Inside the Storm 2, Episode 4: Nintendo," aired on Channel News Asia in 2017, and in several TV news reports and newspapers in Singapore, Italy and the USA.

Areas of expertise

- Game Design and Development
- Formal models for game analysis
- Physical and Affective Computing
- Digital Humanities and History of Technology
- Machine Learning and Behavioral Analytics
- Computer Security and Privacy

Impact of research and Achievements

- Formalized new models for game analysis and design (AGE and 6-11 Frameworks), now adopted in the industry and referenced in game education curricula in several universities worldwide
- Developed experimental games selected for international events like "Sense of Wonder Night" at the Tokyo Game Show and FILE Games in Rio de Janeiro
- Senior Member IEEE, Professional Member (ISC)²

Top five publications

- Dillon, R. (2010). On The Way to Fun: An Emotion Based Approach to Game Design. Boca Raton, FL: AKPeters/CRC Press.
- Dillon, R. (2011). The Golden Age of Video Games: The Birth of a Multi-Billion Dollar Industry. Boca Raton, FL: CRC Press.
- Dillon, R. (2014). Ready. A Commodore 64 Retrospective. Singapore: Springer.
- Dillon, R., Lothian P., Grewal S., Pereira D. (2021). Cyber Security: Evolving Threats in an Ever-Changing World. In Kuah ATH., & Dillon R., (Eds): Digital Transformation in a Post-COVID World. CRC Press
- Dillon, R., & Tan K.L. (2023). Cybersecurity workforce landscape, education, and industry growth prospects in Southeast Asia. Journal of Tropical Futures 1 (2), 172-181
- Dillon, R., & Tan K.L. (2023). Cybersecurity workforce landscape, education, and industry growth prospects in Southeast Asia. Journal of Tropical Futures 1 (2), 172-181

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Dr Insu Song

Senior Lecturer, Information Technology
James Cook University in Singapore

PhD Computer Science, University of Queensland, Australia
BInfoTech (Hons I), Griffith University, Australia
BSc Physics, Chung-Ang University, Seoul, Korea

Background

After completing his undergraduate studies in Physics in Korea in 1991, Dr Song followed up with an Honours degree in Information Technology in 2004, and completed his PhD studies in Computer Science in 2008. Dr Song's research interests include biomedical engineering, health informatics, mental health informatics, knowledge engineering, and text mining. He has more than 15 years of industry experience in information systems design, embedded system design, industrial control system design, electronics engineering, signal processing, patent analysis, and multimedia/game software development. Dr Song has published over 60 peer reviewed papers.

Areas of expertise

- Information systems design
- Embedded system design
- Industrial control system design
- Electronics engineering
- Signal processing
- Health Informatics
- Certified TAA for RTOs (Registered Training Organizations in Australia)

Impact of research

- In 2011, Dr Song was awarded a prestigious international grant (Global Grand Challenges) from the Bill and Melinda Gates foundation to work on mobile applications for providing "Early Child Health Intervention Using Breathing Sound."
- In emerging markets with vast populations, mobility is the key to health services. Mobile-focused healthcare advances simplify the way new technology is adopted by medical professionals and organisations.

Top five publications

- Huang, Y., Song, I., Rana, P., & Koh, G. (2017, May). Fast diagnosis of bowel activities. In *Neural Networks (IJCNN), 2017 International Joint Conference on* (pp. 3042-3049). IEEE.
- Chandrasekaran S., & Song I. (2016) Sustainability of big data servers under rapid changes of technology. In: Kim K., Joukov N. (eds) *Information Science and Applications (ICISA) 2016. Lecture Notes in Electrical Engineering*, vol 376. Springer, Singapore. doi: 10.1007/978-981-10-0557-2_15
- Tam N.T., & Song I. (2016) Big data visualization. In: Kim K., Joukov N. (eds) *Information Science and Applications (ICISA) 2016. Lecture Notes in Electrical Engineering*, vol 376. Springer, Singapore. doi: 10.1007/978-981-10-0557-2_40
- Song, I. (2015, July). Diagnosis of pneumonia from sounds collected using low cost cell phones. In *2015 International Joint Conference on Neural Networks (IJCNN)* (pp. 1-8). IEEE. doi: 10.1109/IJCNN.2015.7280317
- Song I. (2015) Gaussian Hamming Distance. In: Arik S., Huang T., Lai W., Liu Q. (eds) *Neural Information Processing ICONIP 2015* (pp. 233-240). *Lecture Notes in Computer Science*, vol 9491. Springer, Cham.

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JCU Research Profile





Dr Jusak Jusak

Senior Lecturer Internet of Things
James Cook University in Singapore

PhD (Communications Engineering), RMIT University, Australia
B.Eng (Electronics Engineering), Brawijaya University, Indonesia

Background

Dr Jusak Jusak has research experience across Australia, New Zealand, and Indonesia through which He has gained solid skills in both theoretical and practical knowledge in distributed wireless sensor networks and Internet of Things (IoT) technologies. This experience contributes significantly to accumulating his knowledge in which his research goal has been directed towards designing IoT systems and devices for monitoring, identification and interpretation signals from broad areas of disciplines with main focus in the implementation of IoT for tele-healthcare.

He is an accredited Ph.D advisor as a Primary Advisor with current research interest in the development of lightweight blockchain architecture to achieve the need for a scalable, fault-tolerance, secure, and traceable private blockchain network to match with the requirements for healthcare Internet of Things. He is also focusing on the creation and deployment of Tiny Machine Learning, a lightweight machine learning method for devices with limited resources. This approach allows us to consolidate a sophisticated machine learning algorithm into small devices in the future, therefore facilitating the broad implementation of Artificial Intelligence (AI) model into IoT systems.

Areas of expertise

- Internet of Things infrastructure design
- Internet of Things embedded system design
- Internet of Things for healthcare
- Internet of Things communication protocols
- Biomedical signal processing
- Tiny Machine Learning
- Lightweight Blockchain technology

Impact of research

- Development of Internet of Medical Things (IoMT) system using Zigbee networks to measure and monitor heart sound signal.
- Development of lightweight algorithm to identify heart sound signal. The proposed system has been successfully implemented

in a real Internet of Things device while eyeing its contribution to the future of the smart healthcare system.

- Development of an anonymization algorithm to obscure patient's cardiac information during transmission and to protect information stored in the cloud database. The proposed scheme offered a secure non-cryptographic model for transmission and storing clinical data in the cloud.

Top five publications

- Kerrison S, Jusak J, Huang T (2023) Blockchain-Enabled IoT for Rural Healthcare: Hybrid-Channel Communication with Digital Twinning in Electronics, 12 (9).
- Prasetyo J, Musayyanah, Jusak J (2023) A novel multiple access communication protocol for LoRa networks without LoraWAN in Indonesian Journal of Electrical Engineering and Computer Science (IJECS), Vol. 30. No. 3, pp. 1440-1448.
- Jusak J, Mahmoud S, Laurens R, Alsulami M and Fang Q (2022) A new approach for secure cloud-based Electronic Health Record and its experimental testbed. IEEE Access, 10. pp. 1082-1095
- Pratikno H, Ibrahim M.Z., Jusak J (2022) A novel fern-like lines detection using a hybrid of pre-trained convolutional neural network model and Frangi filter in Telkomnika Telecommunication Computing Electronics and Control, vol. 20, no. 3, pp. 607-620.
- Jusak J, Puspasari I and Kusumawati W (2021) A semi-automatic heart sounds identification model and its implementation in Internet of Things devices in Advances in Electrical and Computer Engineering, 21 (1). pp. 45-56.

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Dr Steve Kerrison

Senior Lecturer, Cybersecurity
James Cook University in Singapore

PhD (Computer Science), University of Bristol, UK
MEng (Computer Systems Engineering), University of Bristol, UK

Background

With a history of expertise in systems from the cloud right down to chip micro-architectures, Steve's current research interests focus on how to make cybersecurity easy, efficient and effective, aiming to create a safer, smarter and more environmentally friendly world.

Steve's research highlights include designing a formally verifiable time-deterministic network-on-chip for safety critical embedded multi-core systems, and creating an energy model that enables embedded software developers to understand how much energy their code consumes. More recently, Steve has hacked smart padlocks to turn them into fingerprint-stealing devices and is exploring deploying measures against such IoT-borne cyber-threats.

He has collaborated in various research projects in both Europe and Singapore. The EU-funded FP7 FET "ENTRA" comprised three academic institutions and one commercial chipmaker to explore energy reduction measures for modern embedded systems. The ARTEMIS Joint Undertaking project "EMC2" brought one hundred European academic and industrial organisations together to research mixed-criticality multi-core embedded real-time systems for space, aviation and automotive innovations. Steve conducted research into IoT for Industry 4.0 at A*STAR's "Model Factory @ ARTC", later participating in projects under Singapore National Research Foundation's National Cybersecurity R&D Programme whilst working at an IoT cybersecurity start-up, where he also co-authored a PKI-related patent.

Areas of expertise

- Multi-core embedded systems
- Computer micro-architecture
- Cybersecurity for Internet of Things
- Public Key Infrastructure

Impact of research

- Patent PCT/SG2019/050382 is used in products securing IoT communications in systems ranging from smart homes to city infrastructure.

- Members of ENTRA project subsequently joined the coordination action "ICT-Energy", a group of cross-disciplinary researchers, receiving EU funding for fostering interdisciplinary dialogue.
- Demonstrated a formally-verified time-deterministic communication model for multi-core systems, overcoming drawbacks of unpredictable "best-effort" systems that are not acceptable in real-time embedded safety-critical environments.
- Created a 480-core real-time embedded system, the largest of its kind, contributing tools and designs publicly through an open-source model.

Top five publications

- Kerrison, S. (2022). IoT Droplocks: Wireless Fingerprint Theft Using Hacked Smart Locks. In: The 15th IEEE International Conference on Internet of Things (IEEE iThings-2022), 22-25 August 2022, Helsinki, Finland.
- Morse, J., Kerrison, S., and Eder, K. (2018). On the limitations of analyzing worst-case dynamic energy of processing. ACM Transactions on Embedded Computing Systems, 17 (3). 59. DOI: 10.1145/3173042.
- Kerrison, S., Buschoff, M., Nunez-Yanez, J., and Eder, K. (2017). Measuring energy. In: Fagas, Giorgos, Gammaitoni, Luca, Gallagher, John P., and Douglas, Paul, (eds.) ICT - Energy Concepts for Energy Efficiency and Sustainability. IntechOpen, London, UK, pp. 59-82. DOI: 10.5772/65989.
- Georgiou, K., Kerrison, S., Zbigniew, C., and Eder, K. (2017) Energy transparency for deeply embedded programs. ACM Transactions on Architecture and Code Optimization, 14 (1). 8. DOI: 10.1145/3046679.
- Kerrison, S., May, D., and Eder, K. (2016). A Benes based NoC switching architecture for mixed criticality embedded systems. In: IEEE International Symposium on Embedded Multicore Socs (MCSoc), 21-23 September 2016, Lyon, France. DOI: 10.1109/MCSoc.2016.50.

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Dr Randy Zhu

Lecturer, School of Science and Technology
James Cook University in Singapore

PhD (Information Technology), James Cook University, Australia
MSc (Information Systems), Nanyang Technological University, Singapore
BSc (Computer Science), The University of Adelaide, Australia

Background

Dr Randy's primary research focus is in the area of human-computer interaction (HCI) for people with disabilities. Wearables, IoT and advanced computer techniques like Machine Learning have led to the upsurge of innovative applications within the healthcare sector. Randy's focus is on the adoption of community-based co-design in assistive software development: using a Participatory Action Research (PAR) approach in co-design to increase usability and adoption of assistive technology.

Dr Randy possesses strong skillsets in qualitative workshop and product design for people from marginalised communities. These skillsets allowed him to co-design and develop human-centered products. His work is characterized by a strong technical component to address the problems faced by the communities. Prototypes were implemented to empirically evaluate the adapted HCI techniques and tools suited for respective marginalised communities.

Areas of expertise

- Design and develop qualitative workshops for people from marginalised communities
- Development of human-centered products
- Conduct and evaluate qualitative research
- Participatory Action Research
- Assistive technology

Impact of research

- Developed a framework and structured approach to engage adolescents with ASD for research through a support group
- Ethnographic study that provided insights into the implications of group culture and practices have on the co-design process.

Top publications

- Zhu, R., Hardy, D., & Myers, T. (2022). Community led co-design of a social networking platform with adolescents with Autism Spectrum Disorder. *Journal of Autism and Developmental Disorders*, 52(1), 38-51.
- Zhu, R., Hardy, D., & Myers, T. (2019, December). Co-designing with adolescents with autism spectrum disorder: From ideation to implementation. In *Proceedings of the 31st Australian Conference on Human-Computer-Interaction* (pp. 106-116).
- Zhu, R., Hardy, D., & Myers, T. (2018, October). Building applications that matter: Co-designing with adolescents with autism spectrum disorder. In *International Conference on Health Information Science* (pp. 167-174). Springer, Cham.

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Dr Fanny Yasumaru

Senior Lecturer, Aquaculture & Environmental Science
James Cook University in Singapore

PhD (Biological Oceanography – Aquaculture Nutrition),
Universidade de Sao Paulo, Brazil
MSc. Aquaculture (Nutrition), Universidade Federal de Santa
Catarina, Brazil
BSc. Aquaculture Engineering, Universidade Federal de Santa
Catarina, Brazil

Background

Dr Yasumaru has experience in aquaculture nutrition of tropical species, such as whiteleg shrimp, tilapia, cobia, Asian sea bass, grouper, and mud crab. Her expertise includes *in vitro* protein hydrolysis for quality measurement in feedstuffs and finished feeds, with focus on industrial application for marine shrimp (larval to juvenile stages), and freshwater and marine fish species, feed formulation, feed making, *in vivo* nutrient digestibility and growth trials with fish and shrimp species, proximate composition analysis of ingredients and finished feeds. Additionally, she has conducted training courses on the Singapore Standard - Good Aquaculture Practice (SS670:2021).

Areas of expertise

- Fish nutrition
- Shrimp nutrition
- Alternative ingredients
- *in vivo* and *in vitro* nutrient digestibility

Impact of research

Dr Yasumaru has developed species specific *in vitro* protein digestion method for tilapia, cobia, and rainbow trout. She has also conducted *in vivo* studies to assess alternative feed ingredients, such as insect meals and single-cell proteins to produce more sustainable feeds for fish and shrimp. She serves on the editorial board of the journal *Critical Insights in Aquaculture* and as ad hoc reviewer for other journals such as *Aquaculture*, *Aquaculture Research*, and *Reviews in Fisheries Science & Aquaculture*. In 2022 she was elected Student Director for WAS APC (World Aquaculture Society, Asia-Pacific Chapter).

Top five publications

- Santillan, E., Yasumaru, F., Vethathirri, R.S., Thi, S.W., Hui, Y.H., Chan, D. P.S., & Wuertz, S.. (2024). Microbial community-based protein from soybean-processing wastewater as a sustainable alternative fish feed ingredient. *Scientific Reports*, 14, 2620. <https://doi.org/10.1038/s41598-024-51737-w>
- Coelho, R. T. I., Yasumaru, F. A., Passos, M. J. A. C. R., Gomes, V., & Lemos, D.. (2019). Energy budgets for juvenile Pacific whiteleg shrimp *Litopenaeus vannamei* fed different diets. *Brazilian Journal of Oceanography*, 67, e19243. <https://doi.org/10.1590/S1679-87592019024306701>
- Yasumaru, F.A., C. De Maesschalck, R. Wouters, & Lemos, D.. (2018). *In vitro* degree of protein hydrolysis using enzyme extracts from larval and postlarval *Litopenaeus vannamei* (Boone). *Aquaculture Research*, 49:3933-3937. <https://doi.org/10.1111/are.13864>
- Botelho, M. T., Passos, M. J. de A. C. R., Hasue, F. M., Lemos, D., Rodrigues, E., Yasumaru, F., Phan, N. van., & Gomes, V.. (2018). Citogenotoxic response of juvenile cobia *Rachycentron canadum* (Linnaeus, 1766) reared in two different systems. *Brazilian Journal of Oceanography*, 66(2), 189–198. <https://doi.org/10.1590/S1679-87592018005406602>
- Tibbetts, S.M., F. Yasumaru, F., & Lemos, D.. (2017). *In vitro* prediction of digestible protein content of marine microalgae (*Nannochloropsis granulata*) meals for Pacific white shrimp (*Litopenaeus vannamei*) and rainbow trout (*Oncorhynchus mykiss*). *Algal Research*, 21:76-80. <https://doi.org/10.1016/j.algal.2016.11.010>

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Dr Ghazalnaz Sharifonnasabi

Lecturer, Information Technology
James Cook University in Singapore

Doctor of Philosophy (PhD), Computer Science, Taylor University
Master of Arts (Fine Arts), Science Technology and Sustainability,
University of Malaysia
Bachelor of Education (Arts/Crafts), Business Information
Technology, Staffordshire University

Background

Dr Ghazalnaz Sharifonnasabi is an expert in artificial intelligence (AI) and machine learning applications, with a focus on sectors such as healthcare, tourism, and environmental sustainability. Her work includes developing advanced AI-driven systems, such as DentixAI, a bone age assessment tool based on machine learning algorithms and dental OPG images, which has critical uses in immigration, forensics, and sports. Her expertise also extends to medical imaging and diagnostics, exemplified by her research on deep learning methods for breast cancer prediction and panoramic dental radiograph segmentation. Dr Sharifonnasabi's work reflects her commitment to creating AI-based solutions that address practical, real-world needs.

In addition to her healthcare-focused research, Dr Sharifonnasabi has made significant strides in the integration of AI within the tourism industry, particularly through her work on AI and Sustainability in Tourism: Transforming the Future of Travel. She is also at the forefront of digital innovation with her research on the Halal Servicescape in the Metaverse, where she explores the intersection of cultural practices and new technologies. Her expertise further includes advanced statistical methods, such as Bayesian approaches for complex data analysis, as well as contributions to environmental sustainability, evidenced by her work in seabass detection for aquaculture systems.

Areas of expertise

- Artificial intelligence
- Machine learning
- Medical imaging
- Digital transformation
- Tourism sustainability
- Bayesian statistical methods
- Environmental AI applications

Impact of research

Dr Ghazalnaz Sharifonnasabi has developed cutting-edge AI-based solutions for various industries, including healthcare and tourism. She created DentixAI, a species-specific machine learning application for bone age assessment using dental OPG images, enhancing accuracy

in fields like immigration, forensics, and sports. In addition to her work in healthcare, she has contributed to sustainable tourism practices through her research on AI and Sustainability in Tourism and digital cultural innovations like the Halal Servicescape in the Metaverse.

Dr Sharifonnasabi serves on multiple academic editorial boards and as an ad hoc reviewer for leading AI and machine learning journals. She has received numerous accolades for her research, including recognition for her contributions to medical imaging and environmental sustainability. In 2024, she was selected as a visiting lecturer for Turin University, further extending her influence in AI applications across industries.

Top five publications

- Ghazalnaz Sharifonnasabi, F., & Makhdoom, I. (2022, October). Comparison of Deep Learning and Machine Learning Algorithms to Diagnose and Predict Breast Cancer. In International Conference on Information Technology and Applications (pp. 31-43). Singapore: Springer Nature Singapore.
- Sharifonnasabi, F., Jhanjhi, N., Shamshirband, S., & John, J. (2021). Bone age measurement using a hybrid HCNN-KNN model: a case study on dental panoramic images.
- Sharifonnasabi, F., Jhanjhi, N. Z., John, J., & Nambiar, P. (2021). Bone age measurement-based on dental radiography, employing a new model. In Intelligent Computing and Innovation on Data Science: Proceedings of ICTIDS 2021 (pp. 51-61). Springer Singapore.
- Sharifonnasabi, G. (2024). Segmentation of panoramic dental radiographs using AI: Au Net based approach. International Journal of Computer Applications in Technology.
- Sharifonnasabi, G. (2024). Enhancing seabass detection in aquaculture: A step towards automated behavioural analysis using AI. Aquaculture Research.
- Sharifonnasabi, G. (2024). Automated age measurement with machine learning: A review and development of DentixAI using dental OPG images. Journal of Medical Imaging and Health Informatics.

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Information Technology teaching programs at James Cook University

The Singapore campus of James Cook University offers undergraduate and postgraduate programs in Information Technology and Game Design. As an IT student, you will be entitled to membership with two professional bodies: The Institute of Electrical and Electronics Engineers (IEEE) and the Singapore Computer Society (SCS).

Bachelor of Information Technology

This course brings together the knowledge and skills that are essential for professional IT careers along with subjects in interactive visualisation, games, big data and data mining, interactive 2D/3D graphics and web technologies, mobile technologies, programming and design thinking, and programming.

This course is accredited by the Australian Computer Society (ACS). Graduates are eligible to apply to join the ACS.

Bachelor of Information Technology graduates will be able to:

- Demonstrate essential knowledge for a career in technology related professions and practice;
- Synthesise industry standard and underlying principles and concepts for decision making;
- Critically evaluate data & resources in the context or relevant academic literature;
- Apply critical thinking to address IT related issues;
- Demonstrate the ability to work collaboratively

Master of Information Technology

Our Master of Information Technology program provides practical and relevant skills to allow graduates of different disciplines to move into the IT industry. Students have an opportunity to specialise in Business Informatics, Computing and Networking or Interactive Technologies and Games Design.

In the expanding e-Business/e-Commerce industry, there is a growing global demand for graduates skilled with a mix of marketing, management, internet, multimedia, computing, networking, software technologies and business operation skills.

Our Master of Information Technology program is fully accredited by the Australian Computer Society at the 'Professional Level' (its highest level).

Doctor of Philosophy (PhD) and Master of Philosophy

The Doctor of Philosophy (PhD) is a program of supervised original research. It culminates in the submission of a thesis that demonstrates the ability for critical analysis and research that makes a significant and original contribution to the knowledge and understanding of the field of study.

The Master of Philosophy offers postgraduate research supervision on a smaller scale than the PhD, towards which it can provide a pathway.

For further information on our courses, email admissions-singapore@jcu.edu.au or visit www.jcu.edu.sg





IT Activities @JCUS

The IT department offers lots of activities for the students to experience and engage with the industry while studying at James Cook University in Singapore. Aspects of the curriculum require students to work with industry on real-world projects. Guest lectures from industry experts, academicians and practitioners are conducted during the course of study to enhance the subject knowledge of students and expose them to the applications of their knowledge from time to time. There are various other special events organized like Game Jam and Hackathons wherein students from other universities and institutions also participate and compete. The students meet their peers and relevant personalities from the industry for valuable feedback and networking. Another regular two-day event is Design Sprint which is conducted at the end of term. This event is based on the Google Ventures Design Sprint methodology where our students work in randomly allocated teams across various levels of study and collaborate to develop a design solution for a real-world problem posed by industry.

Your Local Representative:

— James Cook University

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James Cook University Australia offers pathway, undergraduate and postgraduate programs at the Singapore campus of James Cook University.

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