

## KWONG QI JIE (Ir, Dr)

Senior Lecturer

Centre of Studies for Building Surveying  
Faculty of Architecture, Planning and Surveying  
Universiti Teknologi MARA,  
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Selangor, Malaysia.



Research Nexus UiTM (ReNeU) – Energy and Environment (EE)

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## Areas of Expertise

Indoor Environmental Quality, Building Services Engineering, Thermal Comfort, Energy Management

<https://prisma.uitm.edu.my/prisma/?doit=home>

<https://publons.com/researcher/890642/qj-kwong/>

<https://www-scopus-com.ezaccess.library.uitm.edu.my/authid/detail.uri?authorId=35076225300>

<https://scholar.google.com/citations?user=eVwu45QAAAAJ&hl=en>

## Academic Qualifications

Doctor of Philosophy, 2014, Universiti Putra Malaysia

Master of Science in Energy Engineering, 2010, Universiti Putra Malaysia

Bachelor of Engineering (Mechanical) with Honours, 2006

## Professional Qualifications and Membership

1. Board of Engineers Malaysia (BEM), Professional Engineer with Practising Certificate, 2015
2. The Institution of Engineers Malaysia (IEM), Corporate Member, 2011
3. Malaysian Energy Professionals Association (MEPA), Energy Professional, 2019

## Teaching and Learning

Master, September 2020, Sustainable Facilities Management, Lecture  
Degree, September 2020, Built Environment Engineering Services, Lecture and Tutorial  
Degree, September 2020, Environmental Science and Engineering Services 1, Lecture and Tutorial  
Degree, September 2020, Research Methodology, Tutorial

## Student Supervision

### Postgraduate

PhD (Built Environment), Salawati Binti Sallan (2021535069), The correlation between existing physical conditions and indoor environmental quality (IEQ) in green building, On-going

MSc (Built Environment), Adrian Meripa Biring (2019112473), Using Perception on Thermal Comfort at Selected Public Areas in Malaysia, On-going

MSc (Built Environment), Debbie Sophia Binti Henry Bok (2020714183), An Analysis of Particulate Matter Concentration Levels at Malaysian Urban Spaces, On-going

MSc in Facilities Management, Anas Firdaus bin Rahmat (2020998493), Space Management for Green Vehicle in Commercial Buildings, On-going

MSc (Mechanical Engineering), Noor Hafiz Bin Noordin (2015449998) - The Influences of Visible Light Transmittance Vlt to Temperature Total Volatile Organic Compounds (TVOC) And Particulate Matter (PM 2.5) Inside Vehicle Cabin, Co-Supervisor, Completed

MSc (Mechanical Engineering), Muhammad Saifuddin Bin Abdul Rahman (2017459664), Analysis of Permissible Carpark Area for Natural Smoke Ventilation Using Computational Fluid Dynamic (CFD), Co-Supervisor, Completed

MSc in Facilities Management, Nurul Hayati Binti Yong (2018460092), A Post Occupancy Evaluation on Thermal Comfort in A Malaysian Green Campus, Main Supervisor, Completed

MSc in Facilities Management, Syahirawani Binti Shuib (2017939449), Energy Efficiency Potentials of a Healthcare Centre in Malaysia, Main Supervisor, Completed

MSc in Facilities Management, Salawati Binti Sallan (2019710589), Environmental Performance of Green Public Buildings in Central Malaysia: A Comparative Study, Completed

MSc in Facilities Management, Farhana Mohd Zaini, Water Efficiency Improvement Potential in Malaysian Existing Building – A Green Initiative Approach, Completed

MSc in Facilities Management, Nurfatim Mufti, A Study of Residents' Satisfaction Towards Facilities Maintenance in High Rise Residential Buildings in Shah Alam, Completed

MSc in Urban Development and Management, Adriana Mohd Arif (2017814412), Successful Factors of Public Green Building in Malaysia, Completed

## Publications

Qi Jie Kwong, Jim Yexin Yang, Oliver Hoon Leh Ling, Rodger Edwards and Jamalunlaili Abdullah (2021), Thermal Comfort Prediction of Engineering Testing Centres using Computational Fluid Dynamics, *Smart and Sustainable Built Environment*, 10 (1), 18 – 36.

Nor Hayati Yong, Qi Jie Kwong, Kok Seng Ong, Dejan Mumovic (2021), Post occupancy evaluation of thermal comfort and indoor air quality of office spaces in a tropical green campus building, *Journal of Facilities Management*, Article in-press

Oliver Hoon Leh Ling, Akmal Fuad Abdul Jalil, Marlyana Azyyati Marzukhi, Qi Jie Kwong, Na'asah Nasrudin (2021), The Well-being of Urban Residents of Serviced Apartment in USJ, Subang Jaya, Selangor, Malaysia, *IOP Conference Series: Earth and Environmental Science*, 685, 012018.

Oliver Ling Hoon Leh, Siti Nazurah Salehudin, Marlyana Azyyati Marzukhi, Qi Jie Kwong (2021), The quality of life among visitors of recreational parks: A case study of Recreational Parks in Temerloh Town, Pahang, Malaysia, *Geografia-Malaysian Journal of Society and Space*, 17 (1), 94 – 106.

Farhana Mohd Zaini, Qi Jie Kwong, Lynne Barbara Jack (2020), Water efficiency in Malaysian commercial buildings: a green initiative and cost-benefit approach, *International Journal of Building Pathology and Adaptation*, 39 (5), 702 – 719.

Qi Jie Kwong (2020), Light level, visual comfort and lighting energy savings potential in a green-certified high-rise building, *Journal of Building Engineering*, 29, 101198.

Oliver Hoon Leh Ling, Hazirah Azami, Marlyana Azyyati Marzukhi, Qi Jie Kwong (2020), Residents' Well-being of a Village in a Great City. Case Study: Kampong Bharu (New Village), Kuala Lumpur City, *Environment-Behaviour Proceedings Journal*, 5 (2), 69 – 74.

Nurul Faizah Hamzah, Mohamad Sufian Hasim, Qi Jie Kwong (2018), Sustainable practices for existing building: Perspective of local authorities in Malaysia. *International Journal of Academic Research in Business and Social Sciences*, 8 (8), 710 – 724.

Oliver Ling Hoon Leh, Muhammad Shamsul Azdhar Zulkapli, Qi Jie Kwong, Nurul Ashikin Mabahwi (2018), Satisfaction of residents on the redevelopment of natural disaster area. Case study: Kuala Krai, Kelantan, Malaysia. *Planning Malaysia*, 16 (3), 57 – 68.

Noor Hafiz Noordin, Azli Abd Razak, Sahril Kushairi, Mohd Faizal Mohamad, Qi Jie Kwong, Sheikh Ahmad Zaki Shaikh Salim (2018), Preliminary Analysis of Benzene, Toluene, Ethylbenzene, O-Xylene(BTEX) and Formaldehyde inside Vehicle Cabin, *Journal of Mechanical Engineering*, 5 (6), 80 – 99.

Qi Jie Kwong, Shun Jie Kho, Jamalunlaili Abdullah and Vijay R. Raghavan (2017), Evaluation of energy conservation potential and complete cost-benefit analysis of the slab-integrated radiant cooling system: A Malaysian case study, *Energy and Buildings*, Vol. 138, 165 – 174.

Qi Jie Kwong, Hon Fai Chen and Azli Abd Razak (2017), Computational Simulation of indoor thermal environment in a tropical educational hall with displacement ventilation, *Pertanika Journal of Science and Technology*, 25 (S), 77 – 88.

Azli Abd Razak, Muhd Azhar Zainol, Nor Merlisa Ali, Qi Jie Kwong and Sheikh Ahmad Zaki (2017), Effect of upstream building configurations on mean wind speed ratio at urban pedestrian level using LES, *Pertanika Journal of Science and Technology*, 25 (S), 277 – 286.

Qi Jie Kwong, Farah Yasmin Sulaiman and Mohamad Sufian Hasim (2016), A field study of indoor air quality in a tropical refectory, *Built Environment Journal*, Vol. 13 (2), 13 – 25.

Qi Jie Kwong, Jamalunlaili Abdullah and W.M. Wan Mohammad (2015), Noise level and acoustic comfort in a green-rated office building, *Electrical Systems, Special Issue 3*, 89 – 98.

## Research Grants and Contracts

Kwong Qi Jie, Oliver Ling Hoon Leh, Emma Marinie Binti Ahmad Zawawi, Lilis Shereena Binti Safiee, Jamalunlaili Abdullah, 2021, LESTARI SDGTriangle@UiTM 2.0 (600-RMC/LESTARI SDG-T 5/3 (005/2021)), RM20,000, Project Leader, On-going

Kwong Qi Jie, Oliver Ling Hoon Leh, Kok Seng Ong, 2019, FRGS-RACER GRANT SCHEME (600-IRMI/FRGS-RACER 5/3 (012/2019)), RM51,200, Project Leader, On-going

Kwong Qi Jie, Oliver Ling Hoon Leh, Mohamad Sufian Hasim, 2017, BESTARI GRANT SCHEME (600-IRMI/DANA 5/3 BESTARI (053/2017)), RM40,000, Project Leader, Completed

Oliver Ling Hoon Leh, Marlyana Azyyati Binti Marzukhi, Kwong Qi Jie, Farah Ayuni Binti Sahafea @ Shafie, Nor I'zzati Saedon, 2019, FRGS GRANT SCHEME (600-IRMI/FRGS 5/3 (406/2019)), RM97,200, Member, On-going

Oliver Ling Hoon Leh, Dasimah Bt Haji Omar, Marlyana Azyyati Binti Marzukhi, Na'asah Binti Nasrudin, Kwong Qi Jie, 2017, BESTARI GRANT SCHEME ( 600-IRMI/MYRA 5/3/BESTARI (008/2017)), rm35,000, Member, Completed

Jamalunlaili Bin Abdullah, Oliver Ling Hoon Leh, Siti Mazwin Binti Kamaruddin, Noralizawati Binti Mohamed, Sh. Zannierah Binti Syed Marzuki, Abdul Rauf Bin Abdul Rasam, Marlyana Azyyati Binti Marzukhi, Kwong Qi Jie, REI Grant Scheme (600-RMI/DANA 5/3/REI (8/2015)), RM32,000, Member, Completed

## **Services & Administration**

Felo, UiTM Green Centre, UiTM Shah Alam

AJK, Semakan Kondisi Projek (Clean Room) Di Fakulti Sains Gunaan, UiTM Shah Alam

AJK, Science, Technology, Engineering and Mathematics (STEM) Programme, UiTM Shah Alam

Member, Entiti Kecemerlangan, Tier 5, GTSD

AJK Penganalisa risiko, Faculty of Architecture, Planning and Surveying

UGC Expert Task Force Projek (Low Carbon City 2030), UiTM Green Centre, UiTM Shah Alam

Auditor Audit Dalam, Faculty of Architecture, Planning and Surveying

AJK Akreditasi MQA dan MBOT, Centre of Studies for Building Surveying

AJK Pembangunan Makmal dan Peralatan, Centre of Studies for Building Surveying

Kutua Pembangunan Penyelidikan, Penerbitan dan Geran, Centre of Studies for Building Surveying

AJK Panel Semakan Kertas Soalan, Centre of Studies for Building Surveying

AJK Semakan Silibus AP779, Centre of Studies for Building Surveying

AJK Seminar/ Bengkel/ Konferensi, Centre of Studies for Building Surveying

## **Awards & Recognitions**

Anugerah Perkhidmatan Cemerlang Universiti Teknologi MARA, 2019

Anugerah Penyelidik Terbaik 2019 – Majlis Anugerah Kecemerlangan Fakulti Senibina, Perancangan dan Ukur 2019

Anugerah Penerbitan Makalah Jurnal - Majlis Anugerah Kecemerlangan Fakulti Senibina, Perancangan dan Ukur 2017

Penghargaan sebagai Penasihat Luar (Industri) bagi program Diploma Kejuruteraan Mekanikal, University College of Yayasan Pahang, 2016-2019

## Other Activities

External Industrial Advisor, University College of Yayasan Pahang (UCYP), 2020-2022, Diploma in Maintenance Management

External Industrial Advisor, Kolej Yayasan Pahang (KYP), 2016-2019, Diploma in Mechanical Engineering and Diploma in Electrical Engineering

External Industrial Advisor, Kolej Yayasan Pahang (KYP), 2017-2020, Diploma in Technical Maintenance Management

Reviewer, Research Grant Council (RGC) Hong Kong, 2020, RGC's Faculty Development Scheme (FDS)