

STEPHEN TAY (Dr)

PhD (Materials) Imperial College London, B.Eng. (Materials Engineering, First Class Honours) Nanyang Technological University



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CURRICULUM VITAE

ACADEMIC QUALIFICATIONS:

- PhD in Materials, Imperial College London (2015)
 - National Research Foundation (Clean Energy) Overseas Scholarship
- B.Eng. in Materials Engineering (First Class Honours), Nanyang Technological University (2011)
 - Dean's List for 2009/2010 and 2010/2011
 - A*STAR Pre-Graduate Scholarship for 2010/2011
- Workforce Skills Qualifications Advanced Certificate in Training and Assessment (2017)

EMPLOYMENT RECORDS:

- Associate Professor, Department of the Built Environment, NUS (2023 – Present)
- Senior Lecturer, Department of Building, NUS (2019 – 2022)
- Adjunct Researcher, Solar Energy Research Institute of Singapore, NUS (2019 – Present)
- Head of Urban Solar Group and National Solarisation Centre, Solar Energy Research Institute of Singapore, NUS (2017 – 2018)
- Head of National Solarisation Centre, Solar Energy Research Institute of Singapore, NUS (2016 – 2017)
- Deputy Head of National Solarisation Centre, Solar Energy Research Institute of Singapore, NUS (2015 – 2016)

PROFESSIONAL/CONSULTING ACTIVITIES:

- Board Member for Singapore Green Building Council for the term 2023 to 2025 (2023 – Present)
- Working Group Member on Renewable Energy Certificates, Singapore Standards Council (2021)
- Taskforce member of Green Built-Environment Advisory Committee for the Singapore Green Building Masterplan (2020)
- Lead Trainer for ASEAN Training of Trainers on Solar Technology for Renewable Energy Training Institutions (2018)
- Country representative for ACE-USAID Workshop on Renewable Energy Incentive (2017)
- Consultant for Imperial Consultants advising a Fortune Global 500 company (2013-2014)

TEACHING:

- PF1101 Fundamentals of Project Management
- PF3504 Energy Management
- PF4305 Green Development

RESEARCH INTERESTS:

- Solar photovoltaic performance in the urban environment
- Co-location of solar photovoltaic systems and greenery
- Willingness-to-pay and social perceptions on renewable energy

SELECTED PUBLICATIONS:

- Mavian Xin Yi Tay, Grace Khei Mie Wong, Siu-Kit Lau, **Stephen En Rong Tay**, *Motivations and deterrents of Asian small and medium-sized enterprises' willingness to adopt green electricity*, Journal of Cleaner Production, Volume 370, 2022, 133233, <https://doi.org/10.1016/j.jclepro.2022.133233>
- Member of Working Group that developed the *SS 673 : 2021 Code of practice for renewable energy certificates*, published by Enterprise Singapore (2021)
- Chapter contribution to *Update of the Solar Photovoltaic (PV) Roadmap for Singapore*, commissioned by the National Climate Change Secretariat (2020)
- Chapter contribution to *Where Sun Meets Water : Floating Solar Market Report - Executive Summary (English)*, commissioned by World Bank Group (2018)
- Chapter contribution to *Super Low Energy Building Technology Roadmap*, commissioned by Building Construction and Authority (2018)

AWARDS:

- University Annual Teaching Excellence Award (ATEA) for AY21/22 (2023)
- University Annual Teaching Excellence Award (ATEA) for AY20/21 (2022)
- University Annual Teaching Excellence Award (ATEA) for AY19/20 (2021)
- Young Green Building Advocate Award Category under the SGBC-BCA Sustainability Leadership Awards (2019)
- Nanoscale article selected for the "2016 Nanoscale HOT Article Collection" and featured in the Stanford Synchrotron Radiation Lightsource Science Highlights (2016)
- 1st prize for presentation and poster competition, Electrophoretic Deposition V: Fundamentals and Applications (2014)
- 1st prize for technical presentations, IET Present Around the World Competition (UK South East Region) (2013)
- 1st prize, Royal School of Mines Association Essay Competition (2012)
- 1st prize for poster competition, Discover URECA@NTU (2010)
- NTU President Research Scholar (2009/2010)
- DSO-URECA Research Scholar (2008/2009)