Prof. Tai Lee Siang

Lee Siang started his career as an urban designer with the Urban Redevelopment Authority in 1990. He joined DP Architects in 1992 and became a partner in 2000. Between 2011 and 2016, Lee Siang joined Ong&Ong Group, a multi-discipline design firm as Group Managing Director. In 2018, Building & Construction Authority invited Lee Siang to assume the position of Executive Director, BuildSG to spearhead industry engagement. His role was expanded to include Communication and Engagement in 2020. In 2021, Lee Siang was appointed by Singapore University of Technology and Design to be the Head of Pillar, Architecture and Sustainable Design (ASD), a role he held till 31 December 2024.

Lee Siang is most passionate about voluntary works on the NGO front. In the 10 years between 2007 and 2018, he was elected president for 3 trade associations and chairman for 1 global NGO. The organisations are :

- Singapore Institute of Architects, President 2007 – 2009
- Singapore Green Building Council, President 2011 – 2013
- Design Business Chamber Singapore, President 2012 – 2016
- World Green Building Council, Chairman 2016-2018

A key initiative started during Lee Siang's term as WorldGBC Chair is the Advancing Net Zero movement that results in the increasing adoption of Net Zero Buildings worldwide.
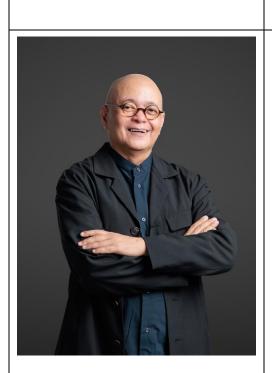
Prof. Khoo Peng Beng

Professor Khoo Peng Beng is the Head of the Architecture and Sustainable Design (ASD) pillar and Professor of Practice at SUTD.

Prior to joining SUTD in 2025, Prof Khoo served as an Adjunct Associate Professor at the National University of Singapore (NUS) for over 23 years, where he led multiple international design studios representing NUS and Singapore in architecture and design.

With over 31 years of experience in the architecture field, Prof Khoo is the co-founder of ARC Studio Architecture + Urbanism which he established in 1998 with his wife and fellow architect, Belinda Huang. Their architectural practice is renowned for its bold and transformative designs across multiple countries, including Singapore, Malaysia, China, India, Cambodia, Timor-Leste, and Rwanda. One of their most iconic projects, the Pinnacle@Duxton, has redefined high-rise, high-density public housing in Singapore, proving that being sustainable, green, and living closer together can be both practical and enjoyable. In recognition of their design excellence, outstanding contributions to the community and inspiring the younger generation, Ar. Huang and Prof Khoo were conferred the prestigious President's Design Award Designer of the Year in 2020. The project has also won several other prestigious awards including the CTBUH Best Tall Building in Asia Australasia, CTBUH Most Sustainable Tall Building Award, World Architecture Festival (WAF) Best Residential Building in the World, FIABCI Prix d'Excellence Award and ULI Award for Excellence 2010.

In 2022, Prof Khoo co-curated the ArchiFest and in 2010, he was the lead curator for the Singapore Pavillion '1000 Singapores: A Model of a Compact City' at the Venice Biennale.

Prof Khoo's research interests spans across quantum consciousness, holarchy, trans-contextuality, deep sustainability, and integral ecology in architecture.

Prof. Dr. Erwin Viray

Erwin Viray was the Chief Sustainability Officer until March 2025, leading the Sustainability Initiatives in SUTD to address the university's approach to environmental responsibility with the goal to minimise environmental impact. Prior to that, he was the Head of Architecture and Sustainable Design Pillar from May 2016 – July 2021. Erwin was Global Excellence Professor at Kyoto Institute of Technology and Head of the Graduate School of Architecture and Design in 2012 for two years. In addition, he holds several professional leadership roles including Chief Communications Officer for the Kyoto Design Lab and a member of the Singapore President's Design Awards jury since 2012 and the Chair of the jury since 2013. He is also an Award Ambassador for the HolcimLafarge Awards in Asia Pacific, a jury chair of archiprixSEA 2012 and 2016, a member of management board the TOTO Gallery MA, an Advisory Council member for the Barcelona Institute of Architecture. Erwin has been Editor of the influential magazine, a+u (Architecture + Urbanism) since 1996.

Erwin's research passions revolve around the influence of new technologies and their related tools in broadening the impact of architecture.

For the past four years he has led the introduction of many new tools and technologies at KIT and driven a curriculum which balances between traditional architecture and new technologies. At KIT, collaboration is established with students from Harvard GSD and ETH-Zurich to work with masters student in Japan to explore the city and the gardens of Kyoto through spatial 3D design point cloud scanning and sound documentation.

Erwin is inspired by Singapore's Prime Minister's Smart Nation initiative, which seeks to understand how architecture and design can work with new technologies to create new experiences and spaces.

Dr. Jason Lim

Jason Lim is a lecturer at Architecture and Sustainable Design SUTD and co-founder of YUME Architects. He is a deeply committed and experienced educator who wants to bridge the gap between academia and practice; and has dedicated his professional and academic life to exploring the intersection of design and technology in search of new possibilities. His practice has received the Singapore Institute of Architects (SIA) design award, iF Design award, Kyoto Global Design award and German Design award in recognition of its design excellence.

Jason completed his doctoral dissertation at Gramazio Kohler Research unit in ETH Zurich. Prior to that, he graduated with a Master of Engineering from the Stevens Institute of Technology, and a Bachelor of Architecture from Cornell University, where he was awarded the American Institute of Architects Henry Adams merit prize.

Dr. Sam Conrad Joyce

Sam Conrad Joyce is an Associate Professor, with a joint appointment in Architecture and Sustainable Design pillar acting as coordinator for PhD programme as well as Design and Artificial Intelligence as studio leader for the Spatial AI Studio.

He heads up the Meta Design Lab a research group which focuses on the productive intersection between the city, creative design, and computation: Seeking new insights, interfaces, and collaborative models for human and machines to work together for the betterment of architecture and master planning. Specifically exploring the way that generative design, big data, analytics, and machine learning can augment existing human design processes though data visualisation, predictions, generative-AI, decision support, and web based feedback.

Prior to this he was an Associate at Foster + Partners, in the Applied Research and Development group leading structural integration and contributing to a range of projects including Mexico City New Airport, Apple Campus, Bloomberg Headquarters, and UAE Expo Pavilion Milan. And before this he held a role as Design Systems Analyst at Buro Happold working on geometrical, structural and master-planning projects, such as Louvré Abu Dhabi and both the London and Sochi Olympic Stadiums. Working with Autodesk developing the programming language Design Script for parametric design in Revit.

His doctoral work focused on applied design computation for integrated architectural and engineering in professional practice, deploying develop data rich systems for effective design space exploration and executive decision making. To enable this, his work synthesised and applied new techniques in distributed and scalable computing, multi-objective optimization, big data analytics, artificial intelligence and web based visualisation.

He has taught internationally including technical studies in the Architectural Association, London, and Design Programming at Chalmers University, Gothenburg, Sweden. Holding workshops and collaborations widely including the Singapore Pavilion

	Venice Biennale, Smart Geometry at the University of Toronto, Kyoto University of Technology and Inujima Island with Sejima architects SANAA, and Geidai University Tokyo with Ryuji Fujimura Architects.

Dr. Immanuel Koh

Immanuel Koh is an Assistant Professor in both the pillars of Architecture & Sustainable Design (ASD) and Design & Artificial Intelligence (DAI) at the Singapore University of Technology and Design (SUTD). He directs *Artificial-Architecture*—an interdisciplinary research laboratory that focuses on the design and development of deep learning models for artificial creativity, generative architecture, predictive urbanism and defence intelligence, with funded projects from industry, academia and government. At ASD & DAI, he teaches courses on the history, theory and practice of artificial intelligence for critical thinking (**Artificial & Architectural Intelligence in Design**), creative design (**Creative Machine Learning**) and industry application (**Spatial Design Studio**).

Prior to joining SUTD, he was based at École polytechnique fédérale de Lausanne (EPFL) in Switzerland, doing transdisciplinary research work between the School of Computer Sciences and the Institute of Architecture. His doctoral studies, which was nominated for the EPFL Best Thesis Prize and the Lopez-Loreta Prize, interrogated the formal basis of machine-learnable architecture by formulating a new design theory called *Architectural Sampling*. He is the author of the book *Artificial & Architectural Intelligence in Design*(2020)— a first to reflect on the epistemological implications of AI on architecture, and vice versa.

Since graduating from the Architectural Association (AA) London, Immanuel has taught at the AA, Royal College of Art (London), Tsinghua (Beijing), Strelka (Moscow), Die Angewandte (Vienna), DIA (Bauhaus Dessau), Harvard GSD, UCL Bartlett, GAFA (Guangzhou), HIT (Harbin), Makerspace Academy (Bangalore) and many others. His design work has been exhibited internationally, such as at NeurIPS' AI & Art Gallery, Venice Architecture Biennale, London's Victoria & Albert Museum, Shanghai's 3D Printing Museum and Taipei's Tittot Glass Art Museum; and published widely, such as in *Architectural Design (AD)*, *Design Computing & Cognition*, *CAAD Futures* and *DigitalFUTURES*. Immanuel has also practiced as an architect at Zaha Hadid Architects (London), as

	a programmer at ARUP with Relational Urbanism (London), and as a creative coder at Convergeo (Lausanne) and anOtherArchitect (Berlin). He is the co-founder of the international avant-garde collective *Neural Architecture Group* (NAG) and co-curator of the global *AIArchitects.org.*