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Research Area: Building-integrated photovoltaics (BIPV), prefabrication design



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Tianyi Chen is a PhD candidate in the Department of Architecture, set to receive his PhD degree in April 2023. His research primarily focuses on building-integrated photovoltaics (BIPV) and prefabricated design and construction. Tianyi's PhD research is supported by the Singapore National Research Foundation (NRF)'s Solar CRP 01 Project, a collaboration between the Department of Architecture and the Solar Energy Research Institute of Singapore (SERIS). He has contributed to the academic community with his research, having papers published in top journals such as the Journal of Cleaner Production, Journal of Building Engineering, Sustainable Cities and Society and Sustainability.

Tianyi has designed the Prefabricated Unitized BIPV Wall (PUBW), an all-in-one prefabricated BIPV wall system that has been granted a PCT patent. As the co-founder and CTO of the startup company Power Facade Pte. Ltd, Tianyi has successfully incubated and secured investment from NUS GRIP (100K SGD), which is the spin-off of SERIS. In 2023, Power Facade was selected to join Shell Startup Engine and obtained the EMA-Shell Partnership Grant (866K SGD).

Previously, Tianyi graduated from Hunan University with a Bachelor of Architecture, earned a Master of Architecture from AADRL, and completed a Master of Advanced Studies in Computer-Aided Architectural Design (MAS CAAD) at ETH Zurich. He conducted practices at Aedas and 10 Design in Hong Kong from 2014-2018, where he gained experience in the field of architectural design. Tianyi is also a LEED Green Associate and a WELL Accredited Professional.