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RESEARCH AREA: Computational Design, Architectural Representation, Architectural Theory



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I'm a 31 year old M.arch graduate from National University of Singapore. I love everything that has to do with Architecture and buildings, Graphic design, drawing and painting. I have 8 years of experience and is a graduate in the M.Arch programme. I have a keen interest in computational tools for the built environment. My focus is on parametric design as well as design automation with an emphasis on machine learning and deep learning.

After graduation, I enrolled with the school to become a teaching trainee/aide to teach young aspiring architectural students. I love working with people, especially if they have the same passion I have for what they do. My research experiences include research assistantship and researcher positions in NUS as well as the Singapore-ETH centre. I am a current Phd candidate in the Department of Architecture in NUS.

My current research is in the development of computational frameworks using Graphs and Graph Neural Networks in exploring the "visible" and "invisible" parts of the built environment. From how the interior of the building is expressed on the façade, to how performance of the architecture can be inferred from its physical location, these are all instances of relationships I am interested in investigating. In the current phase, we are looking into representing architectural form using Graphs and creating datasets of built buildings to be analyzed using GNNs.