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RESEARCH AREA: Acoustics, Computational Vibroacoustics, Impact sound



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Daniella is currently a PhD student at the National University of Singapore under the supervision of Prof. Lau Siu Kit (Eddie). She is part of the research team for the Cities of Tomorrow Programme project, *Modelling and Development of Poro-metamaterials with Double Porosity Systems for Inter-floor Noise Isolation*. Her PhD research investigates the structural-acoustic mechanisms of inter-floor impact sound transmission in multi-story buildings through computational vibroacoustic modelling. She is also exploring the application of physics-informed neural networks to building acoustics.

She completed an Erasmus Mundus Master's program in Waves, Acoustics, Vibrations, Engineering and Sound (WAVES) across Portugal, Spain, and France, and obtained her undergraduate degree in BS Physics at the University of the Philippines Diliman. Her past research and experience include sound source localization using microphone arrays, room impulse response simulations, underwater acoustics, deep learning, and audio signal processing, including an internship at Fraunhofer IDMT in Germany.