

Hoang-Son Nguyen

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RESEARCH INTERESTS

Deep representation learning methods guided by identifiability and robustness principle, to improve generalizability, interpretability, and steerability of deep learning systems (such as large language models)

EDUCATION

Oregon State University <i>M.S. in Artificial Intelligence</i>	Oct. 2024 – Mar. 2026 <i>United States</i>
The Chinese University of Hong Kong (CUHK) <i>B.Eng. in Artificial Intelligence, First Class Honours</i>	Sep. 2019 – Mar. 2024 <i>Hong Kong</i>

WORK EXPERIENCE

Graduate Research Assistant <i>School of Electrical Engineering & Computer Science</i> <ul style="list-style-type: none">Supervisor: Dr. Xiao FuTopics: Deep Representation Learning, Matrix Factorization	Oct. 2024 – Now <i>United States</i>
Research Assistant <i>Dept. of Systems Engineering & Engineering Management, CUHK</i> <ul style="list-style-type: none">Supervisor: Dr. Hoi-To WaiTopics: Graph Signal Processing, Graph Learning	Apr. 2024 – Aug. 2024 <i>Hong Kong</i>

PREPRINTS & PUBLICATIONS

- N., Hoi-To Wai “Robustness of Graph Learning Algorithms to Partially Observed Smooth Graph Signals”, Preprint in preparation, 2025.
- N. and Hoi-To Wai, ”On Detecting Low-Pass Graph Signals under Partial Observations,” IEEE 13rd Sensor Array and Multichannel Signal Processing Workshop (SAM), 2024.
- N., Yiran He and Hoi-To Wai, ”On the Stability of Low Pass Graph Filter with a Large Number of Edge Rewires,” IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022.

HONORS & AWARDS (SELECTED)

Best Student Paper Award at IEEE SAM <i>For the best student works at IEEE Sensor Array and Multichannel Signal Processing Workshop</i>	2024
Professor Charles K. Kao Research Scholarship <i>For outstanding achievements in undergraduate research</i>	2023
University Admission Scholarship <i>Full-ride scholarship for the entire undergraduate study</i>	2019

MISCELLANEOUS

Programming: Python (PyTorch, PySpark), C/C++, MATLAB, Linux
Reviewer: Causality and Large Models @ NeuRIPS (2024), IEEE ICASSP (2025), IEEE TSP (2025)