

Sy-Tuyen Ho (Tuyen)

PhD Student



Research Interests. Safety AI, Vision Language Models, Spatial Reasoning.

EDUCATION

University of Maryland, College Park (UMD) Doctor of Philosophy in Computer Science Supervisor: Prof. Furong Huang	United State 2025 –present
Singapore University of Technology and Design (SUTD) Master of Engineering (Research) Supervisor: Prof. Ngai Man Cheung	Singapore 2024 –2025
University of Information Technology (UIT) Vietnam National University HCMC (VNU-HCM) Bachelor of Science in Computer Science, Honour program Ranked 2 nd	HCMC, Vietnam 2017 –2021

EXPERIENCE

Temasek Lab @ SUTD Research Assistant	Singapore 2022–2025
Viettel Group Internship	HCMC, Vietnam 2020–2021

SELECTED PUBLICATIONS

1. **Sy-Tuyen Ho**, Jun Hao Koh, Ngoc-Bao Nguyen, Alexander Binder, Ngai-man Cheung, “Revisiting Model Inversion Evaluation: From Misleading Standards to Reliable Privacy Assessment” Under Review
2. **Sy-Tuyen Ho**, Tuan Van Vo, Somayeh Ebrahimkhani, Ngai-man Cheung, “Vision Transformer Neural Architecture Search for Out-of-Distribution Generalization: Benchmark and Insights” **NeurIPS 2024 (Main Track)**
3. Jun Hao Koh*, **Sy-Tuyen Ho***, Ngoc-Bao Nguyen, Ngai-man Cheung, “On the Vulnerability of Skip Connections to Model Inversion Attacks” **ECCV 2024**
4. **Sy-Tuyen Ho**, Koh Jun Hao, Keshigeyan Chandrasegaran, Ngoc-Bao Nguyen, Ngai-man Cheung, “Model Inversion Robustness: Can Transfer Learning Help?” **CVPR 2024**

SKILLS

- **Pytorch/LLMs**
- **High-performance computing**
- **Python/C++**

SERVICES

- **Journal Reviewer:** TMM 2023-2025
- **Conference Reviewer** NeurIPS 2024/2025, ICLR 2025, AISTATS 2025, ICML 2025, ACM MM 2025

AWARDS AND HONORS

- [2024] UMD Graduate School Dean's Fellowships
- [2024] PhD Scholarship from UMD
- [2024] Temasek Lab Research Quality Award
- [2024] Master's Degree Scholarship from Temasek Lab @ SUTD
- [2021] Salutatorian of the 2017 intake at UIT, VNU-HCM

REFEREES

1. **Associate Professor Furong Huang - Department of Computer Science**
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E-mail: furongh@cs.umd.edu
2. **Associate Professor Ngai-Man Cheung - Associate Head of Pillar**
Current Affiliation: Singapore University of Technology and Design, Singapore
E-mail: ngaiman_cheung@sutd.edu.sg
3. **Associate Professor Tam Nguyen - Head of Vision and Mixed Reality Lab**
Current Affiliation: University of Dayton, The United State
E-mail: tamnguyen@udayton.edu