Sy-Tuyen Ho (Tuyen)

PhD Student

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

EDUCATION

University of Maryland, College Park (UMD)	United State
Doctor of Philosophy in Computer Science	2025 –present
Supervisor: Prof. Furong Huang	

Singapore University of Technology and Design (SUTD)	Singapore
Master of Engineering (Research)	2024 –2025
Supervisor: Prof. Ngai Man Cheung	

University of Information Technology (UIT)	HCMC, Vietnam
Vietnam National University HCMC (VNU-HCM)	2017 –2021
Bachelor of Science in Computer Science, Honour program	
Ranked 2nd	

EXPERIENCE

Temasek Lab @ SUTD	Singapore
Research Assistant	2022–2025

Viettel Group	HCMC, Vietnam
Internship	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

- [2025] UMD Graduate School Dean's Fellowships
- [2025] 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**
   Current Affiliation: University of Maryland, College Park, The United State
   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