Sy-Tuyen Ho (Tuyen)

UMD PhD Student | SUTD MSc | VNU-HCM BSc

Research Interests. Safety and Security AI, Multimodality Models, Embodied Agents.
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EDUCATION

University of Maryland, College Park (UMD) — United State
Doctor of Philosophy in Computer Science — 2025–present
Supervisor: Prof. Furong Huang
Research Topics: Safety and Security AI, Multimodality Models, Embodied Agents

Singapore University of Technology and Design (SUTD) — Singapore
Master of Engineering (Research) — 2024–2025
Supervisor: Prof. Ngai Man Cheung
Research Topics: Safety and Security AI, Multimodality Models

University of Information Technology — Vietnam
Vietnam National University HCMC (VNU-HCM) — 2017–2021
Bachelor of Science in Computer Science, Honour program
Salutatorian of the intake 2017
Supervisor: Prof. Tam Nguyen

EXPERIENCE

University of Maryland, College Park (UMD) — United State
Teaching Assistant — 2025–present

Temasek Lab @ SUTD — Singapore
Research Assistant & Senior Research Assistant — 2022–2025
Worked on research projects funded by DSO National Laboratories
DSO Collaborator: Dr. Lionel Heng

Viettel Group — Vietnam
Internship — 2020–2021

SELECTED PUBLICATIONS

1. Ngoc-Bao Nguyen, **Sy-Tuyen Ho**, Jun Hao Koh, Ngai-man Cheung, "Model Inversion Attacks on Vision-Language Models: Do They Leak What They Learn?".Arxiv 2025

2. **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 at NeurIPS 2025

3. **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**

4. Jun Hao Koh*, **Sy-Tuyen Ho***, Ngoc-Bao Nguyen, Ngai-man Cheung, "On the Vulnerability of Skip Connections to Model Inversion Attacks". **ECCV 2024** (* indicates equal contributions)

5. **Sy-Tuyen Ho**, Koh Jun Hao, Keshigeyan Chandrasegaran, Ngoc-Bao Nguyen, Ngai-man Cheung, "Model Inversion Robustness: Can Transfer Learning Help?". **CVPR 2024**

AWARDS AND HONORS

- [2025] UMD Graduate School Dean's Fellowships
- [2025] UMD PhD Scholarship
- [2024] Temasek Lab Research Quality Award
- [2023] SUTD Master's Scholarship
- [2021] Salutatorian of the 2017 intake at UIT, VNU-HCM

SKILLS

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

SERVICES

- **Journal Reviewer:** TMM 2023-2025
- **Program Committee:** AAAI 2026
- **Conference Reviewer** NeurIPS 2024/2025, ICLR 2025, AISTATS 2025, ICML 2025, ACM MM 2025

REFEREES

1. **Associate Professor Furong Huang - Department of Computer Science**
   Affiliation: University of Maryland College Park; Maryland Robotics Center, The United State
   E-mail: furongh@cs.umd.edu

2. **Associate Professor Ngai-Man Cheung - Associate Head of Pillar**
   Affiliation: Singapore University of Technology and Design; Temasek Lab, Singapore
   E-mail: ngaiman_cheung@sutd.edu.sg

3. **Dr Lionel Heng - Principal Member of Technical Staff and Director of the Robotics Autonomy Lab**
   Affiliation: DSO National Laboratories, Singapore
   E-mail: lionel.heng@ieee.org

4. **Associate Professor Tam Nguyen - Head of Vision and Mixed Reality Lab**
   Affiliation: University of Dayton, The United State
   E-mail: tamnguyen@udayton.edu