ANH THAI

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EDUCATION

Georgia Institute of Technology August 2019 - March 2025
Doctor of Philosophy in Computer Science, Minor in Mathematics
Master of Science in Computer Science, Machine Learning Specialization

- Advised by Prof. James M. Rehg and co-advised by Prof. Judy Hoffman
- Research areas: 3D Computer Vision, Multi-modal Learning - GPA: 4.0/4.0

Georgia Institute of Technology August 2015 - May 2019
Bachelor of Science in Computer Science

- Concentration: Intelligence and Information-Internetworks
- Graduated with Highest Honors - GPA: 3.94/4.0

PUBLICATIONS

**MEBench: A Novel Benchmark for Understanding Mutual Exclusivity Bias
in Vision-Language Models** In Submission
  Anh Thai, *Stefan Stojanov, Zixuan Huang, Bikram Boote, James M. Rehg*

SplatTalk: 3D VQA with Gaussian Splatting (*acceptance rate: 24%*) ICCV 2025
  Anh Thai, *Songyou Peng, Kyle Genova, Leonidas Guibas, Thomas Funkhouser*

**Symmetry Strikes Back: From Single-Image Symmetry Detection
to 3D Generation (*Highlight - acceptance rate: 2.9%*)** CVPR 2025
  Xiang Li, Zixuan Huang, **Anh Thai**, *James M. Rehg*

**3x2: 3D Object Part Segmentation By 2D Semantic Correspondences
(*acceptance rate: 27.9%*)** ECCV 2024
  Anh Thai, *Weiyao Wang, Hao Tang, Stefan Stojanov, James M. Rehg, Matt Feiszli*

Leveraging Object Priors for Point Tracking (*Oral*) ECCVW 2024
  Bikram Boote, **Anh Thai**, *Wenqi Jia, Ozgur Kara, Stefan Stojanov, James M. Rehg, Sangmin Lee*

**ZeroShape: Regression-based Zero-shot Shape Reconstruction
(*acceptance rate: 23.6%*)** CVPR 2024
  Zixuan Huang*, Stefan Stojanov*, **Anh Thai**, *Varun Jampani, James M. Rehg*

**Low-shot Object Learning with Mutual Exclusivity Bias
(*acceptance rate: 32.7%*)** NeurIPS D&B 2023
  Anh Thai, *Ahmad Humayun*, Stefan Stojanov*, Zixuan Huang, Bikram Boote, James M. Rehg*

**ShapeClipper: Scalable 3D Shape Learning from Single-view Images via
Geometric and CLIP-based Consistency (*acceptance rate: 25.8%*)** CVPR 2023
  Zixuan Huang, Varun Jampani, **Anh Thai**, *Yuanzhen Li, Stefan Stojanov, James M. Rehg*

**Learning Dense Object Descriptors from Multiple Views for Low-shot
Category Generalization (*acceptance rate: 25%*)** NeurIPS 2022
  Stefan Stojanov, **Anh Thai**, *Zixuan Huang, James M. Rehg*

The Surprising Positive Knowledge Transfer In Continual 3D Object Shape Reconstruction (*acceptance rate: 35.5%*)   3DV 2022

   Anh Thai, *Stefan Stojanov, Zixuan Huang, James M. Rehg*

Planes vs Chairs: Category-guided 3D Shape Learning Without Any 3D Cues (*acceptance rate: 28%*)   ECCV 2022

   Zixuan Huang, Stefan Stojanov, **Anh Thai**, *Varun Jampani, James M. Rehg*

3D Reconstruction of Novel Object Shapes from Single Images (*Oral - acceptance rate: 7%*)   3DV 2021

   Anh Thai*, *Stefan Stojanov*, Vijay Upadhya, James M. Rehg*

Using Shape to Categorize: Low-Shot Learning with an Explicit Shape Bias (*acceptance rate: 23.7%*)   CVPR 2021

   Stefan Stojanov, **Anh Thai**, *James M. Rehg*

Incremental Object Learning from Contiguous Views (*Best Paper Finalist - acceptance rate: 1.4%*)   CVPR 2019

   Stefan Stojanov, Samarth Mishra*, **Anh Thai***, *Nikhil Dhanda, Ahmad Humayun, Chen Yu, Linda B. Smith, James M. Rehg*

INDUSTRY RESEARCH EXPERIENCES

Dolby Laboratories   February 2025 - Present
Senior AI Multimodal Researcher   *Atlanta, GA*

- 3D multimodal research for immersive media content.

Google DeepMind   May 2024 - November 2024
Student Researcher   *Mountain View, CA*

- 3D-LMM scene understanding using 3D Gaussian Splatting, under Dr. Thomas Funkhouser.
- Published as first author at ICCV 2025 (acceptance rate 24%).

Meta AI (FAIR)   May 2023 - December 2023
Research Intern/Part-time Student Researcher   *Menlo Park, CA*

- Investigated 3D object part segmentation by leveraging 2D semantic correspondences emerged from diffusion features, under Dr. Matt Feiszli.
- Published as first author at ECCV 2024 (acceptance rate 27.9%).

Meta Reality Labs Research   May 2021 - August 2021
Research Intern   *Redmond, WA - Remote*

- Investigated incremental learning of object 3D representations from few RGB images using 3D priors, under Dr. Eddy Ilg.

ACADEMIC RESEARCH EXPERIENCES

Graduate Research Assistant   August 2019 - December 2024

   Focused on computer vision problems inspired by developmental psychology:
- Studied vision-language models in infant-like learning scenarios.
- Explored 3D object spatial relationship understanding in scene context.

Undergraduate Research Assistant   August 2017 - May 2019

- Published as joint second author at CVPR 2019 (Oral, Best Paper Finalist)
- Analyzed domain adaptation and robustness in self-supervised 3D object learning.

POSTERS

Instance to Category Generalization: A Self-supervised Model Inspired by Infant Learning
International Congress of Infant Studies - ICIS 2022

Stefan Stojanov, **Anh Thai***, Zixuan Huang, James M. Rehg*

The Success of Continual Machine Learning in An Infant-inspired Setting
International Congress of Infant Studies - ICIS 2020

Stefan Stojanov, **Anh Thai***, Samarth Mishra, Nikhil Dhanda, Ahmad Humayun, Chen Yu, Linda B. Smith, James M. Rehg*

SKILLS

Programming Languages: Python, Java, MATLAB

Tools: Blender, Trimesh, OpenCV, PyTorch, NumPy, PyTorch3D, SLURM

PROFESSIONAL ACTIVITIES

Dagstuhl Seminar - Developmental Machine Learning: From Human Learning to Machines and Back
October 16 - 22, 2022
Saarland, Germany

Volunteered for seminar organization:
- Organized seminar activities: group discussions, tutorials, talks, and social activities.
- Communicated closely with participants, organizers, and hosts.
- Collected notes, presentations, and reports for publication.

Conference Reviewing

- Reviewed for CVPR, WACV, BMVC, NeurIPS, ICCV, ECCV

Graduate Teaching Assistant

- Computer Vision — Graduate Section (CS 6476 - Fall 2024)
- Machine Learning with Limited Supervision (CS 7647 - Fall 2023)
- Behavioral Imaging (CS 7626 - Spring 2022)

Invited Talks

- **3x2: 3D Object Part Segmentation By 2D Semantic Correspondences** - *The Hong Kong Polytechnic University (PolyU)* - August 2024
- **Low-shot Object Learning with Mutual Exclusivity Bias** - *Stanford University, Language & Cognition Lab* - April 2023
- **Does Continual Learning = Catastrophic Forgetting?** - *ContinualAI Reading Group* - February 2021
- **Developmental Machine Learning** - *VinAI Research Seminar Series* - November 2020

AWARDS

Bronze Medal in World CodeSprint 4
June 2016
HackerRank

- Competed against 5236 participants around the world

Second Prize in Vietnam National Mathematical Olympiad (VMO 2014)
January 2014
Vietnam Ministry of Education and Training

Best Paper Finalist
June 2019
Computer Vision and Pattern Recognition Conference (CVPR) 2019