ANH THAI

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EDUCATION

 Georgia Institute of Technology Doctor of Philosophy in Computer Science, Minor in Mathematics Masters of Science in Computer Science, Machine Learning Specialization Advised by Prof. James M. Rehg and co-advised by Prof. Judy Hoffman Research areas: Computer Vision & Deep Learning 	August 2019 - Present
Georgia Institute of Technology Bachelor of Science in Computer Science	August 2015 - May 2019
 Concentration: Intelligence and Information-Internetworks Graduated with Highest Hornors - GPA: 3.94/4.0 	
PUBLICATIONS	
3x2: 3D Object Part Segmentation By 2D Semantic Corresponder Anh Thai, Weiyao Wang, Hao Tang, Stefan Stojanov, James M. Rehg,	nces In Submission Matt Feiszli
ZeroShape: Regression-based Zero-shot Shape Reconstruction Zixuan Huang [*] , Stefan Stojanov [*] , Anh Thai, Varun Jampani, James I	In Submission M. Rehg
Low-shot Object Learning with Mutual Exclusivity Bias Anh Thai, Ahmad Humayun [*] , Stefan Stojanov [*] , Zixuan Huang, Bikran	NeurIPS 2023 n Boote, James M. Rehg
ShapeClipper: Scalable 3D Shape Learning from Single-view Imag Geometric and CLIP-based Consistency Zixuan Huang, Varun Jampani, Anh Thai, Yuanzhen Li, Stefan Stojan	ges via CVPR 2022 Lov, James M. Rehg
Learning Dense Object Descriptors from Multiple Views for Low- Category Generalization Stefan Stojanov, Anh Thai, Zixuan Huang, James M. Rehg	shot NeurIPS 2022
The Surprising Positive Knowledge Transfer In Continual 3D Obj Reconstruction Anh Thai, Stefan Stojanov, Zixuan Huang, James M. Rehg	ect Shape 3DV 2022
Planes vs Chairs: Category-guided 3D Shape Learning Without A Zixuan Huang, Stefan Stojanov, Anh Thai, Varun Jampani, James M.	ny 3D Cues ECCV 2022 Rehg
3D Reconstruction of Novel Object Shapes from Single Images Anh Thai*, Stefan Stojanov*, Vijay Upadhya, James M. Rehg	3DV 2021
Using Shape to Categorize: Low-Shot Learning with an Explicit S Stefan Stojanov, Anh Thai, James M. Rehg	hape Bias CVPR 2021
Incremental Object Learning from Contiguous Views Stefan Stojanov, Samarth Mishra [*] , Anh Thai [*] , Nikhil Dhanda, Ahmad B. Smith, James M. Rehg	CVPR 2019 Humayun, Chen Yu, Linda

WORK EXPERIENCE

Meta AI (FAIR) Research Intern/Part-time Student Researcher

- Investigated 3D object part segmentation by leveraging 2D semantic correspondences emerged from diffusion features
- Used PyTorch, OpenCV, Blender, PyTorch3D, Trimesh

Meta Reality Labs Research

Research Intern

- Investigated incremental learning of object 3D representations from few RGB images using 3D priors
- Used PvTorch, OpenCV and NumPv

Google

Software Engineering Intern

- Improved human label quality and implemented the end-to-end training pipeline for large-scale YouTube video classification task
- Used SQL, C++, Python, TensorFlow, and Colab

Google

Software Engineering Intern

- Implemented the client code of the in-app notification screen of Google Ads app in Flutter framework
- Used Dart and Flutter framework

ACADEMIA RESEARCH EXPERIENCE

Graduate Research Assistant

Current research generally focuses on computer vision problems inspired by developmental psychology:

- Investigating the properties of self-supervised visual representation learning under scenarios that closely resemble infant learning
- Understanding the relationship between 3D object shapes and categorization in few-shot and continual learning settings
- Exploring 3D object-centric representation learning in scene context

Undergraduate Research Assistant

- Advised by Dr. James M. Rehg
- Published "Incremental Object Learning from Contiguous Views" (CVPR 2019 Oral, best finalist) as joint second author
- Investigated domain shift in transfer learning from synthetic to real-world data and the robustness of self-supervised object 3D representation 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. Rehq

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. Rehq

May 2018 - August 2018 Mountain View, CA

May 2017 - August 2017

Venice Beach, CA

August 2019 - Present

August 2017 - May 2019

May 2023 - December 2023

May 2021 - August 2021

Redmond, WA - Remote

Menlo Park, CA

Programing Languages: Python, Java, MATLAB

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

Languages: English (full-proficiency), Vietnamese (native)

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

Teaching Assistant

- Machine Learning with Limited Supervision (CS 7647 Fall 2023)
- Behavioral Imaging (CS 7626 Spring 2022)
- Objects and Design (CS 2340 Spring 2017)
- Introduction to Linear Algebra (MATH 1553 Fall 2016)

Invited Talks

- Low-shot Object Learning with Mutual Exclusivity Bias Stanford University, Language & Cognition Lab April 2023
- Does Continual Learning = Catastrophic Forgetting? Continual AI Reading Group February 2021
- Developmental Machine Learning VinAI Research Seminar Series November 2020

AWARDS

Bronze Medal in World CodeSprint 4 HackerRank	June 2016
- Competed against 5236 participants around the world	
Faculty Honors Georgia Institute of Technology - Achieved 4.0 GPA	2015 - 2019
Second Prize in Vietnam National Mathematical Olympiad (VMO 2014) Vietnam Ministry of Education and Training	January 2014
Best Paper Finalist Computer Vision and Pattern Recognition Conference (CVPR) 2019	June 2019