Stefan Stojanov
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Education

Georgia Institute of Technology — Atlanta, GA
Computer Science PhD Student advised by Prof. James M. Rehg — Fall 2017 - present

Bard College — Annandale-on-Hudson, NY
BA in Mathematics and Computer Science — Fall 2013 - Spring 2017

Publications and Preprints

1. *Learning Dense Object Descriptors from Multiple Views for Low-shot Category Generalization*
   Stefan Stojanov, Anh Thai, Zixuan Huang, James M. Rehg – NeurIPS 2022
2. *Planes vs. Chairs: Category-guided 3D shape learning without any 3D cues*
   Zixuan Huang, **Stefan Stojanov**, Anh Thai, Varun Jampani, James M. Rehg – ECCV 2022
3. *The Surprising Positive Knowledge Transfer in Continual 3D Object Shape Reconstruction*
   Anh Thai, **Stefan Stojanov**, James M. Rehg – 3DV 2022
4. *The Benefits of Depth Information for Head-Mounted Gaze Estimation*
   Stefan Stojanov, Sachin S Talathi, Abhishek Sharma – ETRA 2022 Short Paper
5. *Using Shape to Categorize: Low-Shot Learning with an Explicit Shape Bias*
   Stefan Stojanov, Anh Thai, James M. Rehg – CVPR 2021
6. *3D Reconstruction of Novel Object Shapes from Single Images*
   Anh Thai*, **Stefan Stojanov***, Vijay Upadhya, James M. Rehg – 3DV 2021
7. *Incremental Object Learning from Contiguous Views*
   Stefan Stojanov, Samarth Mishra, Ngoc Anh Thai, Ahmad Humayun, Nikhil Dhanda, Chen Yu, Linda B. Smith, James M. Rehg – CVPR 2019 oral, best paper finalist (45 of 5,160 submissions)
8. *Unsupervised 3D Pose Estimation with Geometric Self-Supervision*
   Chinghang Chen, Ambrish Tyagi, Amit Agrawal, Dylan Drover, Rohith MV Kumar, **Stefan Stojanov**, James M. Rehg – CVPR 2019

Research Experience

Research Intern — Remote
Facebook Reality Labs — Summer 2021
∘ Worked with the Eye Tracking team to apply 3D computer vision techniques to gaze estimation. Successfully contributed to an ETRA short paper.

Applied Research Intern — Sunnyvale, CA
Amazon Lab 126 — Fall 2018, Summer 2019
∘ Worked with James Rehg and Ambrish Tyagi on 3D human pose estimation, human action recognition, and synthetic data generation. Successfully contributed to CVPR2019 submission.

Undergraduate Research Intern — Boston, MA
Broad Institute of MIT and Harvard — Summer 2016
∘ Worked with Michael Lawrence, Julian Hess, and Gad Getz on developing mathematical models for DNA damage and repair based on autoencoders and nonnegative matrix factorization.

Undergraduate Research Intern — Annandale-on-Hudson, NY
Bard Summer Research Institute — Summer 2015
∘ Worked with Sven Anderson on applying the CBOW word2vec model for lexical text simplification.

Honors and Awards

1. Distinguished Scientist Scholarship (4 Years Full Tuition), Bard College.
2. Dr. Richard M. Siegel Memorial Prize in Science - awarded to a graduating student at Bard College for academic excellence in science.
3. Best Paper Finalist, *Incremental Object Learning from Contiguous Views*, CVPR 2019.

Teaching

1. Teaching Assistant, Computer Vision (CS 4476/6476) Fall 2017
2. Teaching Assistant, Computer Vision (CS 4476) Fall 2019

Professional Activities

Conference Reviewing

- Neural Information Processing Systems (NeurIPS) 2020, 2021, 2022
- Computer Vision and Pattern Recognition (CVPR) 2020, 2021, 2022
- British Machine Vision Conference (BMVC) 2020
- Asian Conference on Computer Vision (ACCV) 2020
- Winter Conference on Applications of Computer Vision (WACV) 2021
- International Conference of Machine Learning (ICML) 2021 (top 10%), 2022
- International Conference of Computer Vision (ICCV) 2021

Event Organization

- Developmental Machine Learning: From Human Learning to Machines and Back - Student volunteer for seminar organization

Posters & Talks

1. *The success of continual machine learning in an infant-inspired setting* — Poster at Virtual International Congress of Infant Studies (vICIS2020)
2. *Instance to category generalization: A self-supervised model inspired by infant learning* — Poster at International Congress of Infant Studies (ICIS2022)

Skills

Programming Languages: Python, MATLAB, C, C++, Bash, Java
Tools: PyTorch, Blender, OpenCV, NumPy, Trimesh