

Education

B.S. in Computer Science

08/2015 - 12/2017

Georgia Institute of Technology

- GPA: 4.0/4.0
- Concentrations: Artificial Intelligence, Theory
- Recipient of the William G. Perry Award for Literature

Experience

Research Assistant with Professor James Rehg

01/2016 - Present

School of Interactive Computing

- Upcoming publication on fast stereo scene flow for 3D scene understanding, with novel algorithms for interpolation and refinement.
- Built pipeline for training/inference of convolutional neural networks for optical flow, disparity, and semantic segmentation

Research Assistant with Dr. Yin Li

08/2017 - Present

- Created standardized model repository for first-person action recognition on UCF101 and EGTEA+ Gaze datasets
- Planned publication on first-person motion prediction by combining multi-stream and recurrent networks

Research Engineer Intern

05/2017 - 08/2017

Google

- Combined recurrent neural networks with SSD detectors to perform object detection in videos
- Enabled faster and more accurate detection than existing mobile models on the Imagenet VID dataset
- Submission to Conference on Computer Vision and Pattern Recognition, 2018

Automation Engineer Intern

05/2016 - 08/2016

Cartera Commerce

- Designed and implemented automated regression tests in Java, Python, and SQL

Publications

[1] Mason Liu and Menglong Zhu. Mobile video object detection with temporally-aware feature maps. arXiv preprint arXiv:1711.06368, 2017. Under Review for CVPR 2018.

Awards

Competitive Programming

- 2016 ACM-ICPC Southeast Regional, 2nd place
- Mercer University Spring Programming Competition, 1st place (2017), 2nd place (2016)
- ITA Tech Challenge, Finalist (2016), Top 10 (2017)

- 2017 Bloomberg CodeCon Finalist
- HackerRank 99.5 percentile

Skills

Experience in computer vision and machine learning

Languages: Python, C++, Java

Tools: Tensorflow (contributor), Caffe, OpenCV, Scikit-learn

Service

Science Olympiad Event Supervisor

01/2016 - 03/2017

- Directed paleontology and ecology events for Georgia Tech Regional Science Olympiad
- Directed hydrogeology event for Emory State Science Olympiad