

Education

Georgia Institute of Technology • M.S. Computer Science, Machine Learning specialization May 2019
Research: Interactive Deep Learning Classification (CVPR) • AdVis: Scalable Adversarial Attacks • Graphical Regions of Interest & Saliency
Coursework: Advanced Computer Vision Machine Learning Probabilistic Graphical Models (PhD) Programming Languages
University of Southern California • B.S. Computer Science & Business Administration August 2017
Computer Security/Systems specialization USC Marshall, USC Viterbi Dean's List

Work

Lyft Level 5 • Autonomous Vehicles Fall 2018
Research Engineer Intern, Perception Palo Alto, CA
> Implement sparse 3D conv. to extract proposals from LIDAR point cloud and deep learned voxel features for real-time detection pipeline
Spotify • Security Summer 2018
Data Science Intern New York, NY
> Detect fraud with account takeover risk score via unsupervised ML & probabilistic models by feature transform of access datalogs
Tencent YouTu Lab • Computer Vision R&D Winter 2017
Deep Learning Intern Global HQ
> Trained RCNN, FPN, one-stage object detectors on VOC w/ custom loss & hyperparameter tuning for speed/accuracy tradeoffs
Apple • macOS Performance Summer 2016
Software Engineering Intern Cupertino, CA
> Designed time-sorted inverted index to backtrack bottleneck processes in given interval from coalesced context switch OS logs

Academia

Georgia Tech • Graduate Researcher • School of Interactive Computing Spring 2018
> Accepted CVPR: image classifier visualizer & real-time inpainting + inference tool to study CNN sensitivity with Prof. Polo Chau
NASA Jet Propulsion Laboratory • Capstone Lead • VR Prototyping Collaboration Platform Spring 2017
> Architected modular VR simulation to explore IMU, EMG, IR input sensors for concurrent, cross-device HW teamwork in UnityVR
USC Viterbi • Teaching Assistant • CSCI-201 Software Engineering Fall 2016
> Led weekly labs, grading, office hours for intermediate CS course on GUI, multi-threaded, TCP/IP socket & parallel programming

Research

Conferences • CVPR: "Interactive Classification for Deep Learning Interpretation", [Demo](#), arXiv. Cabrera et al. 2018.
Papers • "AdVis: Visualizing and Attributing ML Attacks to Adversarial Inputs in Real-time", Jason Lin, Dilara Soyulu. 2018.
• "Detecting Graphical Regions of Interest with Gaussian Process Bayesian Optimization", Lin et al. 2018.
Open source • Tensorflow.js: explore real-time Adversarial Attacks in browser with FGSM – [featured](#) by Google AI
MOOCs • Deeplearning.ai (Coursera) • Stanford CS231n • Data Mining (UIUC) • Penn Robotics: Perception • MIT Self-Driving Cars

Competitions

Stanford TreeHacks • Facebook's Choice, Amazon Alexa Best Experience, Best Data Visualization Palo Alto, Feb 2017
> Prototyped Arduino, AWS bottle & Alexa food tracking intelligence to visualize calorie breakdown and meal suggestions
Facebook Hackathon Global Finals • 3rd Place Menlo Park, November 2017
> Built VR training scenes with Speech-to-Text input for implicit-tagged bias-busting and sentiment analysis with LSTM
Univ of Michigan MHacks • Best overall Microsoft Hack Ann Arbor, September 2015
> Navigate the blind: trained Kinect sensor with HAAR classifiers to recognize RGB+D for Myo-calibrated haptic directions

Leadership

Intel® AI Academy • Artificial Intelligence (AI) Student Ambassador 2018-2019
KPCB Fellow • PwC Elevate Leaders • USC Emerging Leaders • USC Consulting Club • Orientation Advisor • PennApps Fellow
Press coverage • "Georgia Tech Presenting 13 Papers at Premier Computer Vision Conference CVPR" – GaTech, 06/2018
• "Bias-busting App from USC team wins 3rd prize at Facebook Global Hackathon" – USC News, 01/2018
• "LA 2028-sponsored LA Hacks draws 1K+ students for a weekend of innovation in the City of Angels" – LA Olympics, 05/2016

Skills

Learning: TensorFlow, PyTorch, OpenCV, AWS **Experience:** Caffe, scikit-learn, MatConvNet, BigQuery, React, UnityVR
Proficient: Python, JavaScript, Java, C/C++, Objective-C, MATLAB, Android, Arduino, Bash, Django, MySQL, LaTeX