Darius Lam
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Education

Harvard College, MA : 2017 - Present
Phillips Academy Andover, MA: 2014-2017

Experience

2018 **Machine Learning Intern** Los Altos, CA
Cerebras Systems
Built a deep-learning based localization framework from the ground up, implementing RetinaNet. Collaborated with Cerebras employees on future offerings and potential customers involving localization. Additional information available upon request.

2017-2018 **Computer Vision Analyst** Cambridge, MA
Defense Innovation Unit, US Department of Defense
Worked on artificial intelligence projects including the DIUx xView Challenge and interacted closely with USAF and USN operators as well as AI experts, translating between the AI and government domains. Primary author of the dataset paper that was accepted & presented at a NIPS 2017 workshop.

2017 **Research Assistant** Cambridge, MA
Berkman-Klein Center for Internet and Technology, Harvard Law School
AI Ethics and Governance-related projects.

2015-2016 **Research Partner** Cambridge, MA
Microsoft Research New England
Co-developed Kaizen with Genevieve Patterson using caffe and theano. Academic paper published by GroupSight, HCOMP 2016.

Papers

"xView: Objects in Context in Overhead Imagery" - ML4D NIPS 2017, arXiv
Lam et al, Defense Innovation Unit ; Laielli et al, US National Geospatial-Intelligence Agency; McGee, DigitalGlobe
(arxiv.org/abs/1802.07856)

"Kaizen: The Crowd Pathologist"-HCOMP 2016
Darius Lam, Phillips Academy Andover; Genevieve Patterson, Microsoft Research New England
(https://github.com/genp/kaizen)

Relevant Classwork

AI:

CS 182: Artificial Intelligence (classical/game playing AI, robotics, reinforcement learning)
CS 181: Machine Learning (probabilistic focus with some deep learning)
Independent Classwork: CNNs and Autoencoders
Independent Classwork: Generative Modeling for Imagery
Independent Classwork: The Ethics of Artificial Intelligence (under John Palfrey, Berkman Klein Center & The Knight Foundation)

Mathematics:

Stat 110: Probability Theory
Stat 111: Statistical Inference
Stat 215: Bioinformatics (whole-genome SNP analysis, RNA-seq, epigenetics)
CS 229: High Dimensional Probability (concentration of measure, random matrix theory)
AM 221: Advanced Optimization (linear, convex, and combinatorial optimization)

Other:

Philosophy of Proust
Ancient Greek
Early Shakespeare Plays