

Richard D. Lange

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Education: University of Rochester Expected Graduation 2019

Degree PhD in Computer Science/Brain and Cognitive Science
Fellowships & Grants Sproull Fellowship ◦ NSF Research Traineeship #1449828 ◦ NIH Training Grant in Vision Science #5T32EY007125-27

Education: Dartmouth College Graduated 2013

Degree BA ◦ Magna Cum Laude ◦ Honors Thesis
Major Computer Science modified with Engineering ◦ GPA 3.88
Minor Japanese Language and Literature ◦ GPA 3.83
Scholarships James O. Freedman Presidential Scholar
Leo, Deborah and Milton Williams (1942) Memorial Fund

Work and Teaching Experience

Co-Instructor	University of Rochester	Fall 2018
Co-designed and taught 200-level "Philosophy of Perception" course		
Software Intern	Google, Inc	Summer 2016
Worked on machine learning for social networks.		
Teaching Assistant	University of Rochester	Spring 2016
Grading and substitute lecturing for the "Social Implications of Computing" course		
Teaching Assistant	University of Rochester	Winter 2015
Grading and substitute lecturing for the "Machines and Consciousness" course.		
Engineer in Residence	The Harley School	Fall 2013 - Summer 2014
Supervised projects in workshop; built data-driven website enabling sustainability analysis		
Research Assistant	The Brain Engineering Laboratory	Winter 2013
Computer vision research with Prof. Rick Granger. Dartmouth Brain Science Department.		
Teaching Assistant	Dartmouth CS Department	Fall 2010, Winter 2013
Led weekly lectures, graded assignments and exams for two introductory CS courses.		
Software Intern	Crittercism, Inc	Winter 2012
Full-stack development and various bug fixes with San Francisco based startup.		
Research Assistant	Kralik Lab	Winter 2010 – Fall 2011
Bio-inspired robotics research with Prof. J Kralik. Dartmouth Brain Sciences Department.		
Engineering Intern	R. Brooks Associates, Inc.	Summers 2008, 2010
Wrote video-analysis software. Mechanical/electrical design and assembly.		
Teaching Assistant	Dartmouth Machine Shop	Fall 2009
Organized work areas and helped students with machines, materials, and parts.		

Selected Courses

Brains, Minds, and Machines Summer School	Summer 2017	
Comp. Methods in Cog. Science	Fall 2015	Grade: A
Data-Enabled Research (NSF Traineeship)	Fall 2015	Grade: A
Sensory Systems	Fall 2015	Grade: A
Computational Neuroscience	Winter 2015	Grade: n/a
Machine Learning	Spring 2015	Grade: A
Network Science Analytics in the Big Data Era	Spring 2015	Grade: A
Operating Systems	Fall 2014	Grade: A
Algorithms	Fall 2012	Grade: A

Leadership Roles

Eagle Scout **Boy Scouts of America ◦ Troop 171, Pittsford, NY**

Committee Member
House Manager

U. of Rochester Board on Academic Honesty
Alpha Theta Co-Educational Fraternity

2016-Current
Fall - Spring 2013

Enforced residents' duties. General maintenance and repair.

Other Selected Projects

RocAlphaGo

an open-source replication of Google DeepMind's AlphaGo
AI. github.com/Rochester-NRT/RocAlphaGo

VAE Tutorial

a tutorial to walk readers through creating their own custom Variational
Auto-Encoder class in Keras <http://www.github.com/wrongu/vae-tutorial>

LORDAP

a Matlab/Octave toolbox for data pipeline management
<http://www.github.com/wrongu/lordap>