

MACHINE LEARNING RESEARCHER

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Research

Graduate Researcher May 2017 - Current

MACHINE LEARNING AND ASSISTIVE TECHNOLOGY LAB

Orange, CA

- · Comparing the utility of weight sharing in biological systems to machine systems (convolutional neural networks)
- Applications of various machine learning techniques to predict subject's random binary actions in advance of movement with electroencephalogram scans of the brain
- · Automatically tagging video frames that contain code, in programming tutorials, and transcribing it to text

Undergraduate Researcher

Aug. 2016 - May 2017

MACHINE LEARNING AND ASSISTIVE TECHNOLOGY LAB

Orange, CA

- Unsupervised deep learning Remote Sensing model capable of separating clouds from satellite images
- Using LDA to analyze R source code and open source MATLAB functions, to better understand the topic space of scientific computing

Professional Experience _____

Graduate Research Intern May 2017 - Aug. 2017

AEROSPACE CORPORATION

El Segundo, CA

- Deep Learning and High Performance Computing Research
- Predict coordinate location from images when GPS signal becomes unavailable
- Machine learning algorithms to detect anomalies in rocket launch data

Junior Software Engineer

May 2016 - Aug. 2016

TRIPLE RING TECHNOLOGIES

Newark, CA

- · Embedded systems engineering on human implantable devices to monitor glucose levels in patients with Diabetes
- Developed internal repository tracking application, auto scheduling builds, reporting errors, logging changes
- Software modifications to blood pressure cuffs for medical research, blood oxygenation analysis

Technical Skills ___

- Python, Lua, R, Matlab, C++, Java, SQL
- · Cuda, Caffe, Git, Keras, OpenCV, OpenMp, Tensorflow, Unix

Education

M.S. in Computational Data Sciences

Aug. 2017 - May 2018

CHAPMAN UNIVERSITY

Orange CA

• Thesis: "ReaderNet: A Reinforcement Learning Agent for Image to Text Transcription"

B.S. in Computer Science Magna Cum Laude

Aug. 2014 - May 2017

CHAPMAN UNIVERSITY

Orange CA

· Minor in Mathematics

Extracurricular Activity President and Founder Jan. 2016 - Mar. 2017 CHAPMAN ROBOTICS Orange, CA • RC car controlled by camera and Raspberry Pi to autonomously steer vehicle • Create and train a convolutional neural network to steer a car through an environment • Computer vision machine learning libraries: OpenCV, Tensorflow **Ambassador** Mar. 2016 - May 2017 LEADERSHIP COUNCIL OF SCHMID COLLEGE Orange, CA • Collaborate with fellow ambassadors, Professors and the Dean • Enhance the Science College of Chapman Independent Projects _____ **Relational Localization** February 2018 • Ask a neural network relational questions: "What person is farthest from the street light?" • The neural network correctly answers and localizes the correct person in the image **Neural Network Library** April 2017 • Created a neural network library from scratch • GPU compatible **MIT: Deep Learning for Self-Driving Cars Competition** Mar. 2017 • Car steers through simulation traffic at 75 mph • Ranked 6th in the world (as of August 2017) **CoreLogic Data Science Challenge** Jan 2017 • Determine if a given house address has an obstructed view of the ocean • Invited to present to CoreLogic executive engineering team at Irvine headquarters **Coffee Robot** Mar 2016 • Raspberry Pi and Camera · Visually detect fullness of coffee pot then tweet status Honors & Awards **Most Distinguished Undergraduate Nominee - Cheverton Award** 2017 • One of six undergraduates nominated **Outstanding Leadership Award** 2017 • Recognized for my work as president of Chapman Robotics **Outstanding student organization Nominee** 2017 • Chapman robotics was recognized as an outstanding student organization

2017

2017

Orange County Computer Club Scholarship

Ronald M. Huntington Scholarship Award Nominee

Publications

- 1. Nicholas LaHaye, Jordan Ott, Michael Garay, Hesham El-Askary, and Erik Linstead. Multi-modal object tracking and image fusion using unsupervised deep learning methodologies. *American Geophysical Union*, In press, 2017
- 2. Jordan Ott, Erik Linstead, Nicholas LaHaye, and Pierre Baldi. Learning in the machine: To share or not to share? *In review for Neural Networks*, 2017
- 3. Jordan Ott, Abigail Atchison, Paul Harnack, Adrienne Bergh, and Erik Linstead. A deep learning approach to identifying source code in images and video. *To appear in MSR-2018*, 2018
- 4. Jordan Ott, Abigail Atchison, Paul Harnack, Natalie Best, Haley Anderson, Cristiano Firmani, and Erik Linstead. Learning lexical features of programming languages from imagery using convolutional neural networks. *To appear in ICPC-2018*, 2018