

Jordan A. Ott

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 actions in advance of movement via electroencephalogram
- Deep learning applications to video indexing, specifically software engineering based tutorials
- Reinforcement learning for advancements in artificial sensory motor integration

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

Orange County Computer Club Scholarship

2017

Ronald M. Huntington Scholarship Award Nominee

2017

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