

Jordan A. Ott

PH.D. CANDIDATE · UC IRVINE

☎ 925-789-0480 | ✉ jordanott365@gmail.com | 🌐 www.jordanott.com | 📱 jordanott

Research

Interests

- Biologically plausible backpropagation
- Sensory motor integration, specifically vision and attention

Graduate Researcher

May 2017 - May 2018

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 Student Instructor

Sept. 2018

UC IRVINE

Irvine, CA

Data Science Intern

June 2018 - Sept. 2018

WORKDAY

Pleasanton, CA

- Customer usage modeling
- Predicting load and growth rate of on boarding customers

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

Software Engineering Intern

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, PyTorch, Tensorflow, Unix

Education

Ph.D in Computer Science

UC IRCINE

- Artificial Intelligence

Sept. 2018 - Present

Orange CA

M.S. in Computational Data Science

CHAPMAN UNIVERSITY

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

Aug. 2017 - May 2018

Orange CA

B.S. in Computer Science Magna Cum Laude

CHAPMAN UNIVERSITY

- Minor in Mathematics

Aug. 2014 - May 2017

Orange CA

Independent Research/Extracurricular

Feedback Attention RNN

- Hidden states are passed to lower layers
- Attention over incoming hidden states

April 2017

Relational Localization

- 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

February 2018

President and Founder

CHAPMAN ROBOTICS

- 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

Jan. 2016 - Mar. 2017

Orange, CA

MIT: Deep Learning for Self-Driving Cars Competition

- Car steers through simulation traffic at 75 mph
- Ranked 6th in the world (as of August 2017)

Mar. 2017

Honors & Awards

Most Distinguished Undergraduate Nominee - Cheverton Award

- One of six undergraduates nominated

2017

Outstanding Leadership Award

- Recognized for my work as president of Chapman Robotics

2017

Outstanding student organization Nominee

- Chapman robotics was recognized as an outstanding student organization

2017

Orange County Computer Club Scholarship

2017

Ronald M. Huntington Scholarship Award

2017

Publications

1. Jordan Ott, Erik Linstead, Nicholas LaHaye, and Pierre Baldi. Learning in the machine: To share or not to share? *In review for Neural Networks*, 2018
2. Jordan Ott, Abigail Atchison, Paul Harnack, Adrienne Bergh, and Erik Linstead. A deep learning approach to identifying source code in images and video. *MSR-2018*, 2018
3. 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. *ICPC-2018*, 2018

Presentations

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*, 2017