Joseph L. Marino

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Education

California Institute of Technology 2014 - Present
Ph.D. in Computation and Neural Systems

University of Minnesota, Twin Cities 2010 - 2014
Bachelor of Science in Physics, Minor in Computer Science High Distinction

Work Experience

Cupitor Consulting Data Analyst
St. Paul, MN 2013 - 2014
Handled and analyzed client datasets for business valuation cases using Microsoft Access, Microsoft Excel, and SQL Server.

University of Minnesota Physics Department Tutor
Minneapolis, MN Fall 2013
Worked directly with students, helping them learn how to solve introductory physics coursework problems.

NOvA Lab Research Assistant
Minneapolis, MN 2011 - 2012
Helped design and build neutrino detectors for Fermilab's large-scale NOvA experiment.

Recent Projects

Utilizing Taxonomies in Multi-Class Classification Fall 2014 - Present
With Prof. Perona and Yue, implemented neural networks with objective functions that incorporate data class taxonomies.

Classifying Birds From Parts Winter 2015 - Present
With Prof. Yue, used Caffe to explore human-interpretable deep learning models for learning birds using the North American Birds dataset.

Comparing Macaque IT Face Recognition with Deep Neural Networks Spring 2015
With Prof. Tsao, explored connections in face representation between macaque IT cortex and deep convolutional neural networks.

Caged Multi-Electrode Arrays Summer 2013
With Prof. Pine (Caltech), wrote analysis software and performed experiments stimulating and recording from neurons in caged multi-electrode arrays.

Relevant Coursework

Machine Learning: Introduction to Data Mining, Mathematical Modeling, Learning Systems, Neural Computation, Machine Learning and Data Mining

Neuroscience: Introduction to Neuroscience, Introduction to Computation and Neural Systems, Brain Circuits, Topics in Systems Neuroscience

Teaching

Teaching Assistant: Neural Computation (Caltech) Fall 2015

Recognition

Kunzel Fellowship, Caltech 2014 - 2015
Dean's List, University of Minnesota 2010 - 2014
Summer Undergraduate Research Fellowship, Caltech 2013
Eagle Scout Award, Boy Scouts of America 2010