imarino@caltech.edu

1200 E. California Blvd., MC 136-93, Pasadena, CA 91125

Education California Institute of Technology 2014 - Present

Ph.D. in Computation and Neural Systems

University of Minnesota, Twin Cities

B.S. in Physics, Minor in Computer Science

2010 - 2014

High Distinction

Work Experience Cupitor Consulting

Data Analyst 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

St. Paul, 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

Taxonomic Curriculum Learning

Feb. 2016 - Present

Developed a taxonomic variant of curriculum learning, in which data labels are trained on in a coarse to fine manner.

Fine-Grained Classification With Non-Expert Labels

Jan 2016 - Mar. 2016

Developed a technique for improving fine-grained classification of objects using coarse data labels. Currently in submission.

Taxonomic Multi-Class Classification

Sept. 2015 - Dec. 2015

Implemented taxonomic loss functions in deep networks for multi-class classification of objects.

Comparing Face Patches with Deep Neural Networks

Mar. 2015 - Jun. 2015

Explored similarities in face representation between macaque IT cortex and deep convolutional neural networks.

Caged Multi-Electrode Arrays

May 2013 - Aug. 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, Advanced Topics in Machine Learning

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

Teaching Teaching Assistant: Neural Computation (Caltech) Fall 2015

Recognition NSF Graduate Research Fellowship Honorable Mention

2014 - 2015

Kunzel Fellowship, Caltech

Dean's List, University of Minnesota

2010 - 2014

Summer Undergraduate Research Fellowship, Caltech

Eagle Scout Award, Boy Scouts of America

2013 2010

2016