

Grant R. Vousden-Dishington

Full-Stack Neuroscientist in Training

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Education

2011 - 2014 University of California, San Diego
Ph.D., Electrical and Computer Engineering
Major: Nanoscale Devices and System
Withdrew to pursue neuroscience research

2006 - 2011 University of California, Irvine
B.S., Computer Science
B.A., Philosophy
B.S., General Engineering (Computer & Biomedical)
Minor, Cognitive Science

Research Experience

Rotation Student - Halpain Lab, UC San Diego (2012-2013)
Research in automated cell morphology and neurite growth analysis
Advisor(s): Shelley Halpain, Ph.D.

Rotation Student - Neuroscience Information Framework, UC San Diego (2012)
Development of web framework and NeuroLex encyclopedia function

Rotation Student - Institute for Neural Computation, UC San Diego (2011)
Research in Granger Causality in EEG and behavioral data of
Parkinsonian patients
Advisor(s): Gert Cauwenberghs, Ph.D. and Howard Poizer, Ph.D.

Undergraduate Researcher - Cognitive Anteater Robotics Lab - UC Irvine
(2009-2011)
Research in optimization of recurrent artificial neural networks with
genetic algorithms and computational models of cerebellar motor control
Advisor(s): Jeffrey L. Krichmar, Ph.D.

Visiting Undergraduate Researcher - Carpin Lab, UC Merced (2010)
Summer Research in balancing and locomotion of small humanoid robot
Advisor(s): Stefano Carpin, Ph.D.

Teaching

Teaching Assistant

ECE 15: Introduction to C Programming - UC San Diego
Summer 2012
Fall 2012
Fall 2013
96% positive feedback

Instructor

Uni Stu 10 - Mind/Man/Machine Seminar - UC Irvine
Spring 2009
Spring 2010
Spring 2011

Outreach & Service

Neuroscience Outreach Program
UC San Diego (2011-2014)

Volunteer Neuroscience Guide
UC Irvine, Center for the Neurobiology of Learning and Memory (2010-2011)

Science Communication

Engineering Cells for Medicine and Science
2nd Mammalian Synthetic Biology Workshop - March 2015 at MIT
Contributor with PLOS Synthetic Biology Community coverage of msbw2.0

Improving Animal Models in Neuropsychiatric Disorders (Preview)
Society for Neuroscience 2014 Annual Meeting
Contributor with PLOS Neuroscience Community coverage of SfN 2014

Honors & Awards

Graduate Research Fellowship Program
National Science Foundation
Awarded Spring 2011

Distinguished Service to University Award
UC Irvine 2011

Hackathons & Competitions

Big Neuron Hackathon *(invitational)**
1-5 June 2015 at Janelia Farm Research Campus
Porting automated neuron morphology analysis algorithms to Vaa3D
BD2k/Internet of BioThings Hackathon

April 2015 Scripps Research Institute

Worked with team to standardize biomedical API with in JSON-LD format

NeuroGaming Hackathon

OpenBCI EEG equipment software development (2014)

Control of 3D-Printed prosthesis (2015)