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Education_

University of California, Berkeley

Berkeley, California

Ph.D. IN COGNITIVE NEUROSCIENCE (GPA: 3.96/4.00)

Sep. 2017 - Expected: May. 2022

- · Advisor: Richard Ivry, Ph.D.
- Applied Data Science Certificate, School of Information
- Awards: Mark R. Rosenzweig Graduate Fellowship (2021); Cognitive Computational Neuroscience Travel Award (2020)

Western University London, Ontario

M.Sc. in Neuroscience (GPA: 4.0)

Sep. 2015 - May. 2017

- · Advisor: Joern Diedrichsen, Ph.D.
- Awards: Gordon Cerebellum Student Travel Award (2017)

Trinity College Dublin Dublin, Ireland

B.A. IN PSYCHOLOGY AND FRENCH (DOUBLE MAJOR; GPA: 4.0)

Sep. 2010 - May. 2014

- · Advisor: Advisor: Redmond O'Connell, Ph.D.
- Awards: Irish Research Council Postgraduate Scholarship (2015); Ussher Fellowship, Trinity College Dublin (2015); US Fulbright Program (short-listed); Wellcome Trust Biomedical Scholarship (2014); Entrance Scholarship, Trinity College Dublin

Experience_

Thesis: Mapping cerebro-cerebellar networks of the human brain during learning

Github [Link]

GRADUATE STUDENT RESEARCHER (2017-)

University of California, Berkeley

- The aim of my thesis is to use machine learning to predict cognitive function across learning in the human cerebellum using features from the cerebral cortex.
- Led a team of 9 (3 Ph.D. students, 5 research assistants, 1 postbac student) to design and collect 300 experimental hours of fMRI and eye-tracking data.
- Created a widely adopted mentorship agreement for research assistants to ensure transparency and accountability in mentoring practices.
 Co-led a journal club for undergraduate research assistants, instructing them on the scientific method.
- Mentored two undergraduate students in designing and writing up honors thesis projects. One student was awarded a **Swann prize** for their work. Prioritized recruitment of research assistants from marginalized demographics.

Thesis: Understanding the functional organization of the human cerebellum

Paper [Link]

GRADUATE STUDENT RESEARCHER (2015-2017)

Western University

- My thesis used machine learning to map cognitive sub-domains of the human cerebellum.
- Led a team of 2 (1 research assistant and one post-doctoral fellow) to design and collect a 26-task fMRI experiment.
- Initiated a **collaboration** with scientists from Stanford University to use **natural language processing and regularized regression** to assign cognitive labels (**cognitiveatlas.org**) to the human cerebellum.
- Passionate about **open-source science**, my data are publicly available on **openneuro.org**. The dataset has been downloaded by **hundreds of researchers**.

Outreach

Prison University Project

Volunteer and Lecturer

RICHMOND, CALIFORNIA

Sep. 2019 - Mar. 2021

- Designed a curriculum and lectured a course in General Psychology to incarcerated students in San Quentin State Prison.
- During the COVID-19 pandemic, created care packages and holiday art for incarcerated people in California prisons.

Graduate Assembly Students of Psychology

Member and RSO Signatory

University of California, Berkeley

Sep. 2018 -

- Created Berkeley Psychology blog to spotlight graduate student research.
- Co-founded and operated twitter account for Berkeley Psychology.
- Writer/Contributor of Berkeley Psychology newsletter.
- Data analysis, statistics and visualization for Berkeley Psychology state of the department annual meeting.
- Member of **fund-raising committee**, attended Berkeley Psychology faculty talks in Silicon Valley.
- Co-wrote mentorship agreement and lab policy documents with faculty to improve lab culture and mentor-mentee relationships.

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Bay Area Scientists in Schools (BASIS)

Volunteer

University of California, Berkeley

• Presented multiple lectures on the "Feel Human Brains" to elementary school children in Bay Area schools.

Inspiring Young Women in STEM Inaugural Conference

Organizing Member

Jan. 2018 - Jan. 2020

WESTERN UNIVERSITY 2016

• Co-organized the first conference, recruited keynote speakers, and evaluated student research.

Western Women Neuroscientists in Schools

Volunteer

WESTERN UNIVERSITY Oct. 2015 - May 2017

• Presented multiple lectures on "Myths and the Brain" to secondary school children in London, Ontario schools.

Schulich School of Medicine Graduate Council

Secretary

WESTERN UNIVERSITY

2015 - 2016

• Oversaw a budget of \$5000, did note-taking at biweekly meetings, and voted on council plans.

Journal of European Psychology Students

Junior Editor

EUROPEAN FEDERATION OF PSYCHOLOGY STUDENTS' ASSOCIATION

2014 - 2016

• Edited research/review paper submissions, recruited reviewers, copy editors, and communicated decision outcomes to authors.

Niteline (Student Helpline)

Publicity Officer and Volunteer

TRINITY COLLEGE, DUBLIN

2011 - 2013

• Provided crisis support to students in need and publicized the student helpline services at national events.

Student-to-Student (S2S)

Peer Mentor

TRINITY COLLEGE, DUBLIN 2011 - 2012

• Provided after-school **homework support** to **children** on the autism spectrum.

Selected Writing_____

Google Scholar [Link]

2021	Educational Symposium: Neuroanatomy for Neuroimaging, Organization for Human Brain Mapping	Video
2020	Transcriptomic Gradients Of The Human Cerebellum, BioRkiv	Paper
2019	Functional boundaries in the human cerebellum revealed by a multi-domain task battery, Nature	Press
	Neuroscience	
2019	Graduate School Advice: What we wish we had known, Berkeley Blog	Blog
2017	Welcome to My Place, Berkeley, California, The Irish Times	Article

Mentorship _____

Honors Thesis Students Sienna Bruinsma (**Psychology**); Shannon Lee (**Cognitive Science**)

Research Assistants Zanib Naaem (Psychology); Yiling Kao (Computer Science); Dylan Benkley (Neuroscience)

Ph.D. Rotation Students Amanda LeBel (Neuroscience); Mark Gorenstein (Neuroscience)

Teaching _____

LECTURER; TUTOR

General Psychology; English Literature

Mount Tamalpais College

San Quentin State Prison

Sep. - Dec. 2019; Jan - Mar. 2021

Biological Psychology, PSYCH 110; Cognitive Neuroscience, PSYCH 127

University of California, Berkeley

GRADUATE STUDENT INSTRUCTOR

Berkeley, California

Aug. - Dec. 2018; Aug. - Dec. 2017

Introduction to Statistics, STAT 1024; Probability and Statistics, STAT 2857

Western University

London, Ontario

Jan. - May. 2017; Sep. - Dec. 2016

GRADUATE STUDENT INSTRUCTOR

Skills

Programming Languages Python, SQL, R, MATLAB, HTML

Languages English (Native), Irish (Native), French (Proficient), German (Basic)

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