Joseph Driscoll

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6507 Oakwood Drive

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Summary of Qualifications

- Extensive experience performing literature searches, analyzing data, and applying the scientific method to strategically design a research plan and produce results (data for peer-reviewed publications and conference presentations)
- History of collaboration in designing experiments and sharing knowledge across multiple platforms
- Quick learner with a passion for data and an in-depth knowledge of neuroscience, physiology, and pharmacology
- Entrepreneurial mindset with an interest in how pharmaceutical products shape the healthcare market
- Motivated problem-solver, constantly developing new skill sets in order to complete difficult projects in an effective and timely manner

Education

University of California at Berkeley — Berkeley, CA
PhD, Neuroscience — *Aug. 2011 – May. 2017*

University of California at Berkeley — Berkeley, CA
BA, Integrative Biology — *Aug. 2002 – May. 2006*

Experience

BlackThorn Therapeutics — San Francisco, CA
Post-Doctoral Fellow — *July 2017 - Present*

- Design, troubleshoot, and manage rigorous experiments to investigate how early stage molecules influence brain circuits and alter behavior
- Develop scripts using python and R to analyze varied datasets
- Conducted whole cell patch clamp recordings of ex vivo neurons to analyze pharmacology of novel therapeutic agents
- Performed nCounter Low Input DNA Amplification for use with NanoString Sprint in order to determine gene expression profiling of single neuron samples
- Interpret and effectively communicate scientific data to various departments and shareholders

UCSF/UC Berkeley — San Francisco, CA
Graduate Researcher — *Aug 2011 - May 2017*

- Employed pharmacology, genetic, and biochemistry techniques to investigate the effects of stress on the neurocircuitry of addiction and reward related behaviors
- Designed and implemented several different data analytic tools to evaluate real-time data
- Exhibited strong written and oral communication skills by sharing data through peer-reviewed publications, conference presentations, and receiving competitive research grants
- Demonstrated essential qualities for progressive teamwork such as time management, organization, accountability, attention to detail, respect, and honesty

Temperon Inc. — Emeryville, CA
Scientific Research Associate — *Fall 2010*

- Worked with investors, lawyers, and experts to help build a business plan for Temperon Inc., a company conducting drug screening for therapeutics to treat alcoholism
- Competed in the Annual Business Plan competition run by UC Berkeley Haas School of Business

UCSF Ernest Gallo Clinic and Research Center   Emeryville, CA
Lab Manager   *Jan 2012 - Dec 2013*
- Investigated the differential expression and functionality of opiate receptors in models of addiction
- Managed schedules, inventory, and conducted a variety of activities to ensure regulatory compliance with third party institutions

University of California at Berkeley   Berkeley, CA
Teaching Experience   *2005 - 2014*
- Developed content and conducted weekly lectures for 50 undergraduates for the undergraduate neurophysiology lab course in the department of molecular and cellular biology
- Mentored several students in completing undergraduate research projects
- Taught science curriculum to a variety of audiences at the Lawrence Berkeley Hall of Science

Awards

- **2015 Outstanding Graduate Student Instructor Award**: Awarded by the graduate division and the department of Molecular Cellular Biology for teaching of the molecular neurophysiology lab course
- **National Science Foundation Graduate Fellow**: Recognizes and supports (funding $90,000.00) outstanding graduate students in science, technology, engineering, and mathematics
- **Eugene Cota Robles University Fellow**: University fellowship recognized and supports (funding $32,000.00) exceptional graduate students with diverse backgrounds
- **Society for Behavioral Neuroendocrinology Summer Fellow**: National Science Foundation sponsored summer program to identify and train students who show exceptional skill in the study of behavioral neuroendocrinology

Technical Experience

- **Data coding, visualization, and analysis tools:** Python (Pandas, Numpy, Scipy, Matplotlib, Seaborn, Plotly, Bokeh), R (tidyverse), Igor, Matlab, SPSS, Git
- **Technical communication tools:** Microsoft Suite (powerpoint, word, excel), Adobe Illustrator, Endnote, Mendeley, Zotero, Pandoc
- **Technical equipment:** Arduino/C

Selected Publications and Academic Presentations

Driscoll JR, Fields HL, and Margolis EB. (2016 October). Circuit specific modulation of corticotrophin releasing factor in ventral tegmental neurons. Society for Neuroscience, San Diego, CA

Margolis EB, **Driscoll JR,** Fields HL. (2015 March). CRF in the VTA has Both Excitatory and Inhibitory Synaptic Actions. HHMI and Janilia Farms meeting on Motivational Circuits in Natural and Learned Behaviors, Ashburn VA.

Smarr, BL, Jennings, KJ, **Driscoll, JR** and Kriegsfeld, LJ. 2014. A time to remember: The role of circadian clocks in learning and memory. *Behavioral neuroscience*, *128*(3), p.283.

Xia, Y, **Driscoll, JR**, Wilbrecht, L, Margolis, EB, Fields, HL and Hjelmstad, GO. 2011. Nucleus accumbens medium spiny neurons target non-dopaminergic neurons in the ventral tegmental area. *The Journal of Neuroscience*, *31*(21), pp.7811-7816.

Margolis, EB, Coker, AR, **Driscoll, JR**, Lemaître, AI and Fields, HL. 2010. Reliability in the identification of midbrain dopamine neurons.PloS one,5(12), p.e15222.

Hobbies

Running, softball, cooking, listening to podcasts, and rooting for the SF Giants!