

# Elizabeth Mar Burnette

## CURRICULUM VITAE

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Neuroscience Interdisciplinary Ph.D. Program  
University of California, Los Angeles  
Los Angeles, CA

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### Education

#### University of California, Los Angeles

Since Sept 2018

Ph.D. Neuroscience  
Mentor: Dr. Lara A. Ray

#### Duke University

Aug 2014-May 2018

B.S. Neuroscience, *cum laude*, Graduation with Distinction  
Minors: Music, Mandarin Chinese. Cumulative GPA 3.823  
Honors Thesis: *Conditioned food aversion: A strategy to study disordered eating?*

### Research

#### UCLA Dept. of Psychology / Psychiatry & Biobehavioral Sci.

Since Jan 2019

Graduate Student Researcher; Mentor: Lara A. Ray

- Studying addiction neurobiology in clinical populations using human neuroimaging

#### UCLA Semel Institute, Neuromodulation Division

Jan-Mar 2019

First-year Rotation Student; Advisor: Andrew F. Leuchter

- Studied effect of TMS treatment on executive function in depression patients
- Used R for statistical analysis

#### UCLA Dept. of Psychiatry and Biobehavioral Sciences

Sept-Dec 2018

First-year Rotation Student; Advisor: Jamie D. Feusner

- Studied reward and anxiety network activity (task-based fMRI) in anorexia nervosa
- Used FSL for fMRI preprocessing and Matlab for PLS analysis

#### Duke University Dept. of Pharmacology

Jan 2017-May 2018

Thesis Independent Study Researcher; Advisor: Cynthia M. Kuhn

*Received Duke Summer Neuroscience Program Research Fellowship*

- Developed a novel conditioned food aversion (CFA) rodent model of disordered eating
- Used anterograde tracing and immunohistochemistry to study development and neurobiological mechanisms of CFA

#### Duke University Dept. of Neuroscience

Jan-Jul 2016

Independent Study Researcher and Interim Lab Manager; Advisor: Jennifer M. Groh

- Studied macaque monkeys' localization of audiovisual stimuli by tracking saccades and observing neuron firing in the superior and inferior colliculi.

- Cared for seven rhesus macaque, oversaw lab business, maintained inventory, upheld lab safety and chemical hygiene standards, served as liaison between lab and regulatory organizations.

**Duke Vestibular Disorders Clinic, Duke University Med. Ctr. Jan-Dec 2015**

Clinical Research Assistant; Advisor: Erin G. Piker

- Analyzed order effects inherent in the vestibular bithermal caloric procedure.

## **Skills**

Project / Lab Management

Clinical, animal, and molecular research

Data analysis and programming: Unix, MATLAB, R, Python, JMP

Animal handling / surgery (rodent and primate)

Bench research (microscopy, immunohistochemistry, PCR, gel electrophoresis)

Mandarin Chinese

## **Publications & Presentations**

Grodin, E.N., **Burnette, E.**, Lim, A.C., MacKillop, J., Karno, M. & Ray, L.A. (2019, July\*). Association between impulsivity and neural activation to alcohol cues in heavy drinkers. Poster to be presented at the International Conference on Applications of Neuroimaging to Alcoholism, New Haven, CT.

**Burnette, E.**, Moody, T.D., Wu, M.S., Sheen, C., Goldbeck, J., Strober, M. & Feusner, J. (2019, June). Reward and anxiety network activity predicts psychometrics in anorexia nervosa and anxious controls. Poster presented at the meeting of the Organization for Human Brain Mapping, Rome, Italy.

**Burnette, E.**, Piker, E., & Frank-Ito, D. (2018). Reevaluating order effects in the binaural bithermic caloric test. *American Journal of Audiology*, 27(1), 104-109. DOI: 10.1044/2017\_AJA-17-0028.

**Burnette, E.**, Ocampo, G., Wander, R., Walker, Q., Zucker, N. & Kuhn, C. (2017, November). Adolescents show conditioned food aversion: A strategy to study disordered eating? Poster presented at the meeting of the Society for Neuroscience, Washington, D.C.

## **Related Experience**

**Science Content Development, CK-12 Foundation**

**May-Dec. 2018**

- Curated and created videos, interactive practice, and other modules for online "Flexbooks" at this K-12 STEM education nonprofit.

**College Counseling, CollegeVine and Synocate**

**Jun 2016-May 2018**

- Specialized in essay editing, interview prep, and web content development/editing for these online-based private college counseling companies.

**Course Creation and Instruction, *Intersectional Queer Narratives* Spring 2016**

- Developed and taught a half-credit course at Duke exploring LGBTQ+ identities and narratives through the lenses of natural sciences, social sciences, and humanities.

**Educational Outreach,**

***Females Excelling More in Math, Engineering, & Science* Feb. 2015-May 2018**

- Facilitated science demonstrations and mentored elementary school girls in STEM through Duke's FEMMES student outreach program.

**Honors and Awards**

Phi Beta Kappa	May 2019
Graduated <i>cum laude</i>	May 2018
Graduation with Distinction in Neuroscience	May 2018
Duke Summer Neuroscience Program Research Fellowship	May-Jul 2017
Cognitive Neuroscience and Law FOCUS program	Aug 2014-May 2015

**Professional Associations**

- Society for Neuroscience
- Sigma Xi Scientific Research Honor Society

**Leadership & Involvement**

**Music Director, *Duke University Hoof 'n' Horn (musical theater organization)***

- Organized and oversaw music rehearsals
- Communicated with directors and producers to develop cohesive productions
- Taught music to 20-40 cast and orchestra members per show

**G.K.A. (Chapter Secretary), *Chi Omega sorority, Mu Kappa chapter***

- Documented and disseminated chapter meeting minutes
- Collaborated with the rest of executive board to oversee 125-member chapter
- Arbitrated disputes between chapter members, upheld bylaws

**Volunteer, *Supporting Women's Action (SuWA)***

- Tutored English and mentored refugee women through the steps of relocation

**Web Publications Intern, *Duke Kunshan University Recruitment Office***

- Developed DKU's webinar series and international online marketing

**Member, *Duke University Marching Band - Drum Line***

- Gained strong sense of dedication, versatility, and teamwork
- Literally a team player