

Elizabeth Mar Burnette

CURRICULUM VITAE

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Neuroscience Interdepartmental Ph.D. Program
University of California, Los Angeles (UCLA)
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EDUCATION

- University of California, Los Angeles (UCLA)** **09/2018-Current**
Ph.D. Neuroscience
Advisor: Dr. Lara A. Ray
- Duke University** **08/2014-05/2018**
B.S. Neuroscience, *cum laude*, Departmental Distinction
Minors: Music, Mandarin Chinese | Cumulative GPA: 3.823
Honors Thesis: *Conditioned food aversion: A strategy to study disordered eating?*

RESEARCH EXPERIENCE

- UCLA Dept. of Psychology / Psychiatry & Biobehavioral Sciences** **04/2019-Current**
Graduate Student Researcher; Advisor: Lara A. Ray
• Studying clinical addiction neuroscience using psychoneuroimmunology and neuroimaging
- UCLA Semel Institute, Neuromodulation Division** **01-03/2019**
First-year Rotation Student; Advisor: Andrew F. Leuchter
• Studied effect of TMS treatment on executive function in depression patients
- UCLA Dept. of Psychiatry & Biobehavioral Sciences** **09-12/2018**
First-year Rotation Student; Advisor: Jamie D. Feusner
• Studied reward and anxiety network activity (task-based fMRI) in anorexia nervosa
- Duke University Dept. of Pharmacology** **01/2017-05/2018**
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** **01-07/2016**
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 safety and chemical hygiene standards, served as liaison between lab and regulatory organizations.
- Duke University Medical Center Vestibular Disorders Clinic** **01-12/2015**
Clinical Research Assistant; Advisor: Erin G. Piker
• Analyzed order effects inherent in the bithermal binaural caloric test for vestibular function.

RESEARCH FUNDING

Current Support

NIH F31AA028976 (NIAAA) Burnette (PI) 09/2020-Current
Ruth L. Kirschstein National Research Service Award
Probing Inflammation and Reward Sensitivity in Alcohol Use Disorder
This study provokes inflammation in participants with AUD and healthy controls to probe the role of neuroinflammation in modulating negative mood and reward response in AUD, with the goal of elucidating novel underpinnings of AUD pathophysiology.
Role: PI / Predoctoral Research Fellow

Past Support

Duke Summer Neuroscience Program Research Fellowship 05-07/2017

HONORS AND AWARDS

UCLA Translational Neuroscience of Drug Abuse (TNDA) Training Program 2020-2021
Phi Beta Kappa 2019
Cum Laude 2018
Neuroscience Departmental Distinction 2018
Duke Summer Neuroscience Program Research Fellowship 05-07/2017
Cognitive Neuroscience and Law FOCUS Program 2014-2015

PEER-REVIEWED PUBLICATIONS

Burnette, E.M., Grodin, E.N., Schacht, J.P., & Ray, L.A. (2020). Clinical and neural correlates of reward and relief drinking. *Alcoholism: Clinical and Experimental Research*. In press.

Baskerville, W.A., Nieto, S.J., Ho, D., Towns, B., Grodin, E.N., Li, C., **Burnette, E.**, Donato, S., & Ray, L.A. (2020). Baseline drinking patterns in non-treatment-seeking problem drinkers. *Alcohol and Alcoholism*. DOI: [10.1093/alcalc/agaa098](https://doi.org/10.1093/alcalc/agaa098). PMID: 33016306.

Burnette, E.M., Baskerville, W.A., Grodin, E.N., & Ray, L.A. (2020). Ibudilast for Alcohol Use Disorder: Study Protocol for a phase II clinical trial. *Trials*, 21(1):779. DOI: [10.1186/s13063-020-04670-y](https://doi.org/10.1186/s13063-020-04670-y). PMID: 32912290.

Lim, A.C., Green, R., Grodin, E.N., Venegas, A., Meredith, L.R., Donato, S., **Burnette, E.**, & Ray, L.A. (2020). Alcohol cue-induced ventral striatum activity predicts subsequent alcohol self-administration. *Alcoholism: Clinical and Experimental Research*, 44(6): 1224-1233. DOI: [10.1111/acer.14342](https://doi.org/10.1111/acer.14342). PMID: 32406553.

Corlier, J., **Burnette, E.**, Wilson, A., Lou, J., Landeros, A., Minzenberg, M., & Leuchter, A.F. (2020). Effect of repetitive transcranial magnetic stimulation (rTMS) treatment of major depressive disorder (MDD) on cognitive control. *Journal of Affective Disorders*, 265, 272-277. DOI: [10.1016/j.jad.2020.01.068](https://doi.org/10.1016/j.jad.2020.01.068). PMID: 32090751.

Burnette, E.M., Grodin, E.N., Lim, A.C., MacKillop, J., Karno, M., & Ray, L.A. (2019). Association between impulsivity and neural activation to alcohol cues in heavy drinkers. *Psychiatry Research: Neuroimaging*, 293. DOI: [10.1016/j.psychres.2019.110986](https://doi.org/10.1016/j.psychres.2019.110986). PMID: 31622796.

Burnette, E. & Piker, E. (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](https://doi.org/10.1044/2017_AJA-17-0028). PMID: 29383375.

MANUSCRIPTS UNDER REVIEW

Grodin, E.N., Bujarski, S., Towns, B., **Burnette, E.**, Nieto, S., Lim, A., Lin, J., Miotto, K., Gillis, A., Irwin, M., Evans, C., & Ray, L.A. (2020, Under Review*). Ibudilast for the treatment of Alcohol Use Disorder: A randomized placebo-controlled experimental study.

Burnette, E.M., Grodin, E.N., Ghahremani, D.G., Galván, A., Kohno, M., Ray, L.A., & London, E.D. (2020, Under Review*). Diminished cortical response to risk and loss during risky decision making in Alcohol Use Disorder.

INVITED TALKS

Burnette, E.M., Grodin, E.N., Lim, A.C., MacKillop, J., Karno, M., & Ray, L.A. (2020*). Association between impulsivity and neural activation to alcohol cues in heavy drinkers. In E.N. Grodin (Chair), *Translational Studies in Alcohol Use Disorder*. Symposium accepted for the Collaborative Perspectives on Addiction Annual Meeting, San Diego, CA. *Meeting cancelled due to COVID-19.

POSTER PRESENTATIONS

Burnette, E.M., Grodin, E.N., & Ray, L.A. (2020*). Risk taking and Alcohol Use Disorder Severity: An fMRI study. Poster accepted for the meeting of the Research Society on Alcoholism. *Meeting held virtually due to COVID-19.

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

Burnette, E., Moody, T.D., Wu, M.S., Sheen, C., Goldbeck, J., Strober, M. & Feusner, J.D. (2019). 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., Ocampo, G., Wander, R., Walker, Q., Zucker, N. & Kuhn, C. (2017). Adolescents show conditioned food aversion: A strategy to study disordered eating? Poster presented at the meeting of the Society for Neuroscience, Washington, D.C.

ABSTRACTS

Bernanke, A., **Burnette, E.**, Murphy, J., Armstrong, C., Zimmerman, S., Hernandez, N., Reavis, Z., and Kuhn, C. (2020). Sex differences in conditioned taste aversion. *Biological Psychiatry*, 87(9), S221.

Kuhn, C., **Burnette, E.**, Wander, R., Ocampo, G., Walker, D., & Zucker, N. (2017). Conditioned food avoidance in adolescence: A contributor to eating disorders? *Neuropsychopharmacology*, 42, S151.

PROFESSIONAL ASSOCIATIONS

- Society for Neuroscience
- Organization for Human Brain Mapping
- APA Division 50 - Society of Addiction Psychology
- Sigma Xi Scientific Research Honor Society

TEACHING EXPERIENCE

Graduate Teaching Assistant, UCLA, *Behavioral Neuroscience Laboratory* **04-07/2020**

- Led lab exercises, assisted in development of online course format (due to COVID-19), graded assessments, and held office hours and review sessions for undergraduate behavioral neuroscience class (PSYCH 116).

Graduate Teaching Assistant, UCLA, *Functional Neuroanatomy* **09-12/2019**

- Developed and led lab exercises, generated questions for, proctored, and graded midterm, final, and lab practicum examinations, and held office hours and review sessions for undergraduate neuroanatomy class (NEURO 102).

Instructor, Duke University, *Intersectional Queer Narratives* **01-05/2016**

- Co-created and taught a half-credit, student-led course exploring LGBTQ+ identities and narratives through the lenses of neuroscience, social sciences, and humanities.

Educational Outreach, *Females Excelling More in Math, Engineering, & Science* **02/2015-05/2018**

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

RELATED EXPERIENCE

Contributing Editor and Content Producer, *Knowing Neurons* **09/2020-Current**

- Write and edit articles and create interactive quizzes for this neuroscience education and outreach website.

Biology and Life Science Content Developer, *CK-12 Foundation* **05-12/2018**

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

College Counselor, *CollegeVine* **06/2016-05/2018**

- Specialized in essay editing, interview prep, and web content development/editing for this online-based college counseling company.