

Elizabeth Mar Burnette

CURRICULUM VITAE

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

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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
- Involved in design, data collection, and/or analysis of 5 clinical trials for Alcohol Use Disorder treatments

Gilead Sciences

06-08/2021

Clinical Operations Intern, Inflammation Therapeutic Area

- Developed study timelines, document trackers, and informed consent forms in support of Phase 3 and Phase 1b clinical trials

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) 09/2020-09/2023

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 Brain Research Institute Science Communication Training Award 2021

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

Grodin, E.N., **Burnette, E.M**, Green, R., Lim, A.C, Miotto, K., & Ray, L.A. (2021). Combined Varenicline and Naltrexone Attenuates Alcohol Cue-Elicited Activation in Heavy Drinking Smokers. *Drug and Alcohol Dependence, IN PRESS.*

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. (2021). Ibutilast for the treatment of Alcohol Use Disorder: A randomized placebo-controlled experimental study. *Translational Psychiatry, IN PRESS.*

Grodin, E.N., **Burnette, E.**, Towns, B., Venegas, A., & Ray, L.A. (2021). Effect of tobacco and cannabis co-use on gray matter volume in heavy drinkers. *Psychology of Addictive Behaviors, IN PRESS.*

Burnette, E.M., Grodin, E.N., Eisenberger, N.I., & Ray, L.A. (2021). Endotoxin for Alcohol Research: A call for experimental medicine using lipopolysaccharide challenge. *Alcohol and Alcoholism, IN PRESS.* DOI: 10.1093/alcalc/aaa148. PMID: 33592623.

Burnette, E.M., Grodin, E.N., Schacht, J.P., & Ray, L.A. (2021). Clinical and neural correlates of reward and relief drinking. *Alcoholism: Clinical and Experimental Research*, 45(1), 194-203. DOI: [10.1111/acer.14495](https://doi.org/10.1111/acer.14495). PMID: 33119924.

Burnette, E.M., Grodin, E.N., Ghahremani, D.G., Galván, A., Kohno, M., Ray, L.A., & London, E.D. (2021). Diminished cortical response to risk and loss during risky decision making in Alcohol Use Disorder. *Drug and Alcohol Dependence*, 218, 108391. DOI: [10.1016/j.drugalcdep.2020.108391](https://doi.org/10.1016/j.drugalcdep.2020.108391). PMID: 33153830.

Baskerville, W.A., Nieto, S.J., Ho, D., Towns, B., Grodin, E.N., Li, C., **Burnette, E.**, Donato, S., & Ray, L.A. (2021). Baseline drinking patterns in non-treatment-seeking problem drinkers. *Alcohol and Alcoholism*, 56(1), 57-63. 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, 110986. DOI: [10.1016/j.psychres.2019.110986](https://doi.org/10.1016/j.psychres.2019.110986). PMID: 31622796.

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

MANUSCRIPTS UNDER REVIEW

Nieto, S.J., Venegas, A., **Burnette, E.M.**, MacKillop, J., & Ray, L.A. (2021, Under Review*). Additive roles of tobacco and cannabis co-use in relation to delay discounting in a sample of heavy drinkers.

Burnette, E.M., Ray, L.A., Irwin, M.R., & Grodin, E.N. (2021, Under Review*). Ibudilast attenuates alcohol cue-elicited frontostriatal functional connectivity in Alcohol Use Disorder.

Meredith, L.R., **Burnette, E.M.**, Grodin, E.N., Irwin, M.R., & Ray, L.A. (2021, Under Review*). Immune Treatments for Alcohol Use Disorder: A Translational Framework.

Nieto, S.J., Grodin, E.N., **Burnette, E.M.**, Cahill, C.M., & Ray, L.A. (2021, Under Review*). Pain catastrophizing is associated with increased alcohol cue-elicited neural activity among individuals with alcohol use disorder.

INVITED TALKS

Burnette, E.M., Grodin, E.N., Lim, A.C., MacKillop, J., Karno, M., & Ray, L.A. (2021*). Association between impulsivity and neural activation to alcohol cues in heavy drinkers. In E.N. Grodin (Chair), *Translational Studies in Alcohol Use Disorder*. Symposium presented at Collaborative Perspectives on Addiction Annual Meeting, San Diego, CA. *Meeting held virtually due to COVID-19.

POSTER PRESENTATIONS

Burnette, E.M., Ray, L.A., Irwin, M.R., & Grodin, E.N. (2021*). Ibudilast attenuates alcohol cue-elicited frontostriatal functional connectivity in Alcohol Use Disorder. *PsychoNeuroImmunology Research Society*. *Meeting held virtually due to COVID-19.

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

Bernanke, A.*, **Burnette, E.**, Murphy, J., Armstrong, C., Zimmerman, S., Hernandez, N., Reavis, Z., and Kuhn, C. (2020*). Sex differences in conditioned taste aversion. *Society of Biological Psychiatry*. *Presented by A. Bernanke; 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. *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. *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? *Society for Neuroscience*, Washington, D.C.

PROFESSIONAL ASSOCIATIONS

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

PEER REVIEW

- Alcohol & Alcoholism
- Human Brain Mapping
- Addiction Biology

TEACHING EXPERIENCE

Graduate Teaching Assistant, UCLA, *Drug Outreach Promoting Awareness (DOPA) Capstone*

01-07/2021

- Facilitated virtual visits to local middle and high schools, led undergraduate students in development of interactive drug outreach demonstrations, informational pamphlets, and research assignments, and graded assignments for two-quarter undergraduate neuroscience capstone course (NEURO C-177 and 192C).
- Collected education data on the effectiveness of online-format science outreach (pre- and post-outreach assessments).

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

course (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 course (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, Duke University, *FEMMES* **02/2015-05/2018**

- Facilitated science demonstrations and mentored elementary school girls in STEM through Duke's FEMMES (Females Excelling More in Math, Engineering, and Science) student outreach program.

RELATED EXPERIENCE

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

- Produce podcast, write and edit articles, and create interactive quizzes for the world's largest student-led neuroscience education and outreach website.

Clinical Operations Intern - Inflammation Therapeutic Area, *Gilead Sciences* **06-08/2021**

- Developed study timelines, document trackers, and informed consent forms in support of Phase 3 and Phase 1b clinical trials

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

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

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

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