**Caleb S. Bailey**

July 2021

Biomedical Biological Sciences Research Building

741 S. Limestone Street

Lexington, KY 40536

caleb.bailey@uky.edu

**EDUCATION**

***In progress***

**Degree:** Doctor of Philosophy in Experimental Psychology – Cognitive Neuroscience

**Location:** University of Kentucky

**GPA:** 4.0

***2018 – 2020***

**Degree:** Master of Science in Experimental Psychology – Cognitive Neuroscience

**Location:** University of Kentucky

**GPA:** 4.0

***2014 – 2017***

**Degree:** Bachelor of Science in Psychology with a concentration in Behavioral Neuroscience

**Location:** East Tennessee State University, Johnson City, TN

**GPA:** 3.9

**PROFESSIONAL AFFILIATIONS**

Society for Neuroscience (Student Member)

Research Society on Alcoholism (Student Member)

American Psychological Association (Student Member)

**AWARDS AND HONORS**

2021 Pre-doctoral Trainee *Interdisciplinary Training in Alcohol Research*   
(**T32 AA027488**; Drs. Mark Prendergast and Mark Fillmore)

2021 Substance Use Priority Research Area Graduate Student Grant Award

2021 Arts & Sciences Dean’s Competitive Fellowship Departmental Nominee

2020 Substance Use Priority Research Area Super Student Mentorship Grant Award

2016 ETSU Psychology Honors-in-Discipline Scholarship

2014 Dr. James S. Perry First Year Student in Psychology Award

**RESEARCH**

***July 2018 – Current***

**Title:** Graduate Research Assistant

**Supervisor:** Mark Prendergast, Ph. D.

**Location:** Biological and Biomedical Sciences Research Building, Lexington, KY

**Focus:** Alcohol manipulations on organotypic hippocampal slice cultures as a model of Fetal Alcohol Spectrum Disorders.

**Duties:** Facilitate experiments regarding the effects of perinatal alcohol exposure on structural proteins and cognitive deficits associated with the hippocampus in rats. Conduct rodent maze behavioral paradigms, immunohistochemical fluorescent imaging, Western Blot analysis, and ELISA analysis for protein quantification. Manage and budget lab supplies. Experience with SAS and SPSS.

***May 2016 – May 2018***

**Title:** Undergraduate Research Assistant

**Supervisor:** Matthew Palmatier, Ph. D.

**Location:** Associative Pharmacology Laboratory, Johnson City, TN

**Focus:** Caffeine self-administration, ethanol self-administration, nicotine self-administration, stress manipulation, addiction models, associative learning

**Duties:** Facilitate experiments regarding nicotine and alcohol self-administration. Perform tissue collection, SC and IP injections, IV catheter and brain cannulation surgeries, stress administration, and drug preparation procedures. Experience using SPSS and Graphpad Prism.

**INSTRUCTIONAL EXPERIENCE**

***January 2021 – May 2021***

**Title:** Brain and Behavior, Primary Instructor

**Location:** University of Kentucky, Lexington, KY

**Duties:** Instruct a hybrid, asynchronous course integrating the TopHat and Canvas interfaces. Prepare slides, perform in-class instruction, and write quiz/test questions.

**SELECT PUBLICATIONS, PRESENTATIONS, AND WORKS IN PROGRESS**

**Bailey, C.S.**,Jagielo-Miller, J.E., Keller, P.S., Wilcox, A.L., Prendergast, M.A. (2021). Ethanol sustains phosphorylated tau protein immunofluorescence in the cultured neonatal rat hippocampus: Implications for fetal alcohol spectrum disorders. Manuscript submitted for publication.

**Bailey, C.S.**, Jagielo-Miller, J. E., Wilcox, A. L., Count, C. T., Prendergast, M. A. (2021, March). *The dynamic effect of JNK-1 inhibition on alcohol-induced tau protein modification.* Poster presentation at University of Kentucky Substance Use Research Conference, Lexington, KY.

**Bailey, C. S.**, Deehan, G. A., Bradley, C. A., Smith, A. L., Palmatier, M. I. (2018, November). *Extracellular dopamine release induced by co-presentation of nicotine and flavor conditioned reinforcers: Effect of nicotine dose.* Poster presentation at the Society of Neuroscience, San Diego, CA.

**Bailey, C. S.**, Patterson, A. K., Bradley, C. A., Malone, S. G., Palmatier, M. I. (2017, November). *Investigating the temporal relationship between chronic mild stress and alcohol intake in rats.* Poster session at the Society for Neuroscience, Washington, D.C.

**TRAINING AND CAREER DEVELOPMENT**

Spring 2021 Preparing Future Faculty Teaching Practicum – GS699 (3 credits) *University of Kentucky*

Fall 2020 Grant Writing – GS650 (3 credits) *University of Kentucky*

Fall 2020 College Teaching and Learning – EPE672 (3 credits) *University of Kentucky*

Spring 2020 Seminar in Multilevel Modeling of Longitudinal Data – PSY790 (3 credits)

*University of Kentucky*

**SERVICE**

**Title:** STEM Cats volunteer research mentor

**Supervisor:** Mark Prendergast, Ph.D., University Research Professor

**Location:** University of Kentucky

**Duties:** Guide undergraduate students through weeks of educational, hands-on laboratory research regarding the effects of alcohol on hippocampal neuron viability.

**STUDENTS MENTORED**

**Abigail Wilcox**, NIAAA S.T.A.R & SUPRA Grant Mentee, Undergraduate Student

(Summer 2018 – current) University of Kentucky

**Cassidy Count**, Ph.D. Student

(Fall 2020 – current) University of Kentucky

**Ashley Craig**, Undergraduate Neuroscience Research Fellow Mentee, Undergraduate Student

(Summer 2021 – current) University of Kentucky

**Elise Littleton**, PSY395, Independent Research, Undergraduate Student

(Summer 2021 – current) University of Kentucky

**Camden Horelick**, PSY395, Independent Research, Undergraduate Student

(Summer 2021 – current) University of Kentucky

**REFERENCES**

**Mark Prendergast, Ph.D.**

University Research Professor, University of Kentucky

Mark.Prendergast@uky.edu

**Peggy Keller, Ph.D.**

Associate Professor, University of Kentucky

Peggy.Keller@uky.edu