**Julia E. Jagielo-Miller**

Curriculum Vita

2023

University of Kentucky, Department of Psychology

Kastle Hall Rm.214 171 Funkhouser Drive Lexington, KY 40506-0044

Phone: (814)-460-2185 Email: [julia.jagielo-miller@uky.edu](mailto:julia.jagielo-miller@uky.edu)

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**Education**

Ongoing Teaching Postdoc, University of Kentucky

2022 PhD, Experimental Psychology, University of Kentucky

2020 Graduate Certificate in College Teaching & Learning

2019 M.S., Experimental Psychology, University of Kentucky

2011-2016 B.S., Department of Biology, Edinboro University of Pennsylvania

2011-2016 B.S., Department of Psychology, Edinboro University of Pennsylvania

*Minor: Chemistry; Magna Cum Laude; Robert C. Weber Honors Program*

**Teaching Experience**

2023-2024 Teaching Postdoc: General Psychology, Brain and Behavior, and Topical Seminar: CNS Injury

2022-2023 Teaching Postdoc: Experimental Psychology, Brain and Behavior

2021 Guest lecturer: Techniques in Neuroscience

2021 Guest lecturer: Brain and Behavior

2020 Co-Instructor: Brain and Behavior (hybrid)

2019 Mentoring TAs for Techniques in Neuroscience

2019 Teaching Assistant: Brain and Behavior (online)

2019 Teaching Assistant: Techniques in Neuroscience

2018 Teaching Assistant: Brain and Behavior

2017 Teaching Assistant: Learning

2016 Teaching Assistant: Experimental Psychology

**Research Experience**

2020-2022 Scaling toxicity of COVID spike proteins (SARS-CoV-2 Spike Protein

Subunit 1) in ethanol treated or untreated organotypic hippocampal slice cultures (Dr. Mark A. Prendergast), Spinal Cord and Brain Injury Research Center, Department of Psychology, University of Kentucky.

2018-present Biochemical abnormalities and behavioral pathologies associated with fetal alcohol spectrum disorders using organotypic hippocampal slice culture and rodent behavior models (Dr. Mark A. Prendergast), Spinal Cord and Brain Injury Research Center, Department of Psychology, University of Kentucky.

2017-2022 Characterization of *in vitro* models of traumatic brain injury and ethanol insults (Dr. Mark A. Prendergast), Spinal Cord and Brain Injury Research Center, Department of Psychology, University of Kentucky.

2016-2017 Treatment for cytotoxicity associated with alcohol use disorder using novel compounds in an organotypic hippocampal slice culture model (Dr. Mark A. Prendergast), Spinal Cord and Brain Injury Research Center, Department of Psychology, University of Kentucky.

2014-2016 Search for novel inhibitors for markers of angiogenesis (cell proliferation and cell migration) in spider hemolymph (Dr. Matthew Foradori) University of Edinboro, Department of Psychology.

2012-2016 Effects of CB1 receptor antagonists in various behavioral paradigms, with a focus on impulsivity and memory, *in vivo* (Dr. Peter J. McLaughlin), University of Edinboro, Department of Psychology.

**Research Mentorship**

2020 Graduate mentor for undergraduate thesis, *The Efficacy Of D-Cycloserine In Treating Secondary Injury Resulting From TBI In An In Vitro Model*

2018 Graduate mentor of undergraduate student for Summer Training in Alcohol Research, University of Kentucky

2017 Graduate mentor of undergraduate student for Summer Training in Alcohol Research, University of Kentucky

**Grants And Awards**

2019-2022 Trainee on National Institute on Alcohol Abuse and Alcoholism training grant T32 AA027488

2016-2017 Cognitive Neuroscience Graduate Summer Research Award

2016 Ali Zaidi nominee for Edinboro University

2015 Friends of the Baron-Forness Library Student Research Grant Program ($500) Project Title: *Impacts of scopolamine and exercise on memory of rats in a non-spatial maze task*

2013-2016 Dr. Jim Award for Excellence in the Behavioral and Neural Sciences

2011-2015 UPI Honors Scholarship

2011 Interscholastic Equestrian Associate Zone 2 Scholarship

**Manuscripts In Preparation**

**Jagielo-Miller, J.E.**, Patel, S.P., Bailey, C.S., Count, C.T., Rabchevsky, A.G., and Prendergast, M.A. (in preparation). *In vitro*mechanical distention of culture membranes: Modeling distress associated with traumatic brain injury in the Sprague Dawley rat hippocampus.

Bailey, C. S., Craig, A. J., **Jagielo-Miller, J. E.**, Count, C. T., & Prendergast, M. A. (in preparation). Prenatal alcohol exposure disrupts tactile, but not spatial, discrimination in a continuous performance T-maze task in juvenile rats

**Publications**

Glaser, E.P., Stewart, A.N., **Jagielo-Miller, J.E**., Bailey, C.S., Prendergast, M.P., and Gensel, J.C.(2023). The Effects of Acute Ethanol Intoxication on Spinal Cord Injury Outcomes in Female Mice. *Journal of Neurotrauma*.

Bailey, C. S., **Jagielo-Miller, J. E.**, Keller, P. S., Glaser, E. P., Wilcox, A. L., & Prendergast, M. A. (2022). Ethanol sustains phosphorylated tau protein in the cultured neonatal rat hippocampus: Implications for fetal alcohol spectrum disorders. *Alcohol, 103*, 45-54.

**Jagielo-Miller, J. E.** (2022). Investigating Mechanisms of Injury and Intervention in a Novel *In Vitro* Model of Traumatic Brain Injury in Organotypic Hippocampal Slice Cultures. [Masters thesis, University of Kentucky]. University of Kentucky UKnowledge Repository. https://uknowledge.uky.edu/psychology\_etds/215

Eaton, S.E., **Jagielo-Miller, J.E.**, Prendergast, M.A., and Akins, C.K. (2022). Sex differences of ethanol pharmacokinetics in Japanese quail. *Poultry Science 100*(5), 101790.

**Jagielo-Miller, J.E.** (2019). Characterizing an *in vitro* model of severe focal traumatic brain injury in hippocampal slice cultures: The effects of ethanol and calpain inhibition by MDL-28170. [Masters thesis, University of Kentucky]. University of Kentucky UKnowledge Repository. <https://uknowledge.uky.edu/psychology_etds/166/>

Groft, M. L., Normann, M. C., Nicklas, P. R., **Jagielo-Miller, J. E**., & McLaughlin, P. J. (2019). Biphasic effects of 5-HT 1A agonism on impulsive responding are dissociable from effects on anxiety in the variable consecutive number task. *Naunyn-Schmiedeberg's archives of pharmacology*, 1-10.

Rice, B., Saunders, M., **Jagielo-Miller, J**., Prendergast, M., & Akins, C. (2019). Repeated Subcutaneous Administration of PT150 Has Dose-Dependent Effects on Sign Tracking in Male Japanese Quail. *Experimental and Clinical Psychopharmacology,* Experimental and Clinical Psychopharmacology, 2019.

McLaughlin, P.J., **Jagielo-Miller, J.E.**, Plyler, E.S., Schutte K.K., Vemuri, V.K. & Makriyannis, A. (2017). Differential effects of cannabinoid CB1 inverse agonists and antagonists on impulsivity in male Sprague Dawley rats: Identification of a possibly clinically-relevant vulnerability involving the serotonin 5HT1A receptor. *Psychopharmacology, 234*(6), 1029-1043.

Thompson, E. E., **Jagielo-Miller, J.E.**, Vemuri, V. K., Makriyannis, A., & McLaughlin, P. J. (2016). CB1 antagonism produces behaviors more consistent with satiety than reduced reward value in food-maintained responding in rats. *Journal Of Psychopharmacology, 30*(5), 482-491.

**Presentations**

Bailey, C. S., Craig, A. J., Jagielo-Miller, J. E., Count, C. T., & Prendergast, M. A. (2023) Prenatal alcohol exposure impairs performance on spatial and tactile serial discrimination task in juvenile rats. Poster accepted for presentation at 46th Annual Research Society on Alcoholism, Bellevue, WA.

Count, C. T., Bailey, C. S., Jagielo-Miller, J. E**.**, Dossett, C. G., Littleton, J. M., and Prendergast, M. A. (2023, June). Acute ethanol exposure decreases doublecortin expression, but not neuronal viability, in the organotypic hippocampal slice culture. Poster Presented at the 46th Annual RSA Scientific Meeting, Bellevue, WA.

**Jagielo-Miller, J.E.**, Patel, S.P., Prajapti, P., Bailey, C.S., Count, C.T., Rabchevsky, A.G., Sullivan, P.G., and Prendergast, M.A. (2023). *In vitro* mechanical distention of culture membranes: modeling distress associated with traumatic brain injury in the Sprague Dawley rat hippocampus. Poster presented at 28th Annual Kentucky Spinal Cord & Head Injury Research Trust Symposium, Lexington, KY.

Count, C. T., Bailey, C. S., Jagielo-Miller, J. E., Dossett, C. G., Littleton, J. M., and Prendergast, M. A. (2023). Ethanol decreases expression of developing neurons, but not neuronal viability, in a cultured rat hippocampus. Poster Presented at the 5th Annual Substance Use Research Event Conference, University of Kentucky, Lexington, KY.

Bailey, C.S., **Jagielo-Miller, J.E**., Wilcox, A., Keller, P., Glaser, E., Count, C., and Prendergast, M.A. (2022). Multimetric translation of an organotypic hippocampal slice culture model of fetal alcohol spectrum disorders in rats. Poster presented at the 4th Annual Substance Use Research Event Conference, University of Kentucky, Lexington, KY.

Glaser, E., Stewart, A., **Jagielo-Miller, J.E.**, Bailey, C.S., Prendergast, M., and Gensel, J. (2022). Effects of acute ethanol intoxication on spinal cord injury outcomes. Poster presented at the 4th Annual Substance Use Research Event Conference, University of Kentucky, Lexington, KY.

**Jagielo-Miller, J.E.,** Patel, S.P., Bailey, C.S., Count, C.T., Rabchevsky, A.G., and Prendergast, M.A. (2022). Ethanol pre-exposure differentially impacts cell survival based on injury severity in an organotypic hippocampal slice culture model of traumatic brain injury. Poster presented at the 4th Annual Substance Use Research Event Conference, University of Kentucky, Lexington, KY.

Bailey, C. S., **Jagielo-Miller, J. E.,** Keller, P. A., Wilcox, A. L., and Prendergast, M. A. (2021). Ethanol prevents constitutive decrement of tau phosphorylation immunofluorescence in the cultured neonatal rat hippocampus: Implications for Fetal Alcohol Spectrum Disorders. Presented virtually at 50th Annual Society for Neuroscience.

**Jagielo-Miller, J.E.**, Patel, S.P., Bailey, C.S., Count, C.T., Rabchevsky, A.G., and Prendergast, M.A. (2021). Ethanol exaggerates cell death at high but not low impact force in an organotypic hippocampal slice culture mechanical distension model of traumatic brain injury. Presented virtually at 50th Annual Society for Neuroscience.

Bailey, C.S., **Jagielo-Miller, J. E.**, Wilcox, A.L., Count, C.T., and Prendergast, M.A. (2021). The effect of JNK-1 inhibition on alcohol-induced tau protein modification. Poster presented virtually at the 3rd Annual Substance Use Research Event Conference, Lexington, KY.

Bailey, C.S., Jagielo-Miller, J.E., and Prendergast, M.A. Ethanol-induced tau protein modifications in lateral genu of hippocampus. Poster accepted for presentation at 43rd Annual Research Society on Alcoholism, New Orleans, Louisiana (cancelled).

Jagielo-Miller, J.E**.**, Bailey, C.S., Gebhardt, J.E., and Prendergast, M.A.

Effect of concurrent ethanol insult and transection TBI on hippocampal cell death in organotypic slice cultures*.* Poster accepted for presentation at 43rd Annual Research Society on Alcoholism, New Orleans, Louisiana (cancelled).

Bailey, C.S., **Jagielo-Miller, J.E.,** and Prendergast, M.A. (2020) Ethanol-induced tau protein modifications in lateral genu of hippocampus. Poster presented at the Substance Use Research Day, Lexington, KY.

**Jagielo-Miller, J.E.**, Bailey, C.S., Gebhardt, J.E., and Prendergast, M.A. (2020). Influence of ethanol intoxication at the time of a traumatic brain injury in an *in vitro* organotypic hippocampal slice culture model*.* Poster presented at the Substance Use Research Day, Lexington, KY.

Eaton, S.E., Jagielo-Miller, J.E., Prendergast, M.A., and Akins, C.K. (2019). Pharmacokinetics of ethanol in male and female Japanese quail. Presented at the 49th Annual Meeting for Society of Neuroscience, Chicago, IL.

Prendergast, M.A., Littleton, J.M., Bardo, M.T., **Jagielo-Miller, J.E.,** Gebhardt, J., and Bailey, C. (2019). *In Vitro* Modeling of Alcohol and Drug-Induced Neuroplasticity. Presented at Substance Use Research Day, Lexington Kentucky.

Stanley, C.E., Samson, A., Eaton, S.E., Jagielo-Miller, J.E., Prendergast, M.A., and Akins, C.K. (2019). Blood ethanol concentration profile of Japanese Quail. Poster was presented at Substance Use Research Day, Lexington, Kentucky.

Eaton, S.E., Saunders, M.A., Jagielo-Miller, Prendergast, M.A., and Akins, C.K. (2019). Blood ethanol concentration profile of male and female Japanese Quail. Poster was presented at 42nd Annual Research Society on Alcoholism Conference, Minneapolis, Minnesota.

Eaton, S.E., Saunders, M.A., Jagielo-Miller, J.E., Prendergast, M.A., and Akins, C.K. (2018). Blood ethanol concentration profile of male and female Japanese Quail. Poster was presented at 19th Annual International Society for Biomedical Research on Alcoholism, Kyoto, Japan.

Eaton, S.E., Saunders, M.A., Jagielo-Miller, J.E., Prendergast, M.A., and Akins, C.K. (2018). Blood Ethanol Concentration Profile of Male Japanese Quail. Poster was presented at 41st Research Society of Alcoholism, San Diego, California.

Eaton, S.E., Saunders, M.A., Jagielo-Miller, J.E., Prendergast, M.A., and Akins, C.K. (2018). Sex differences in the blood ethanol concentration profiles of Japanese quail. Poster was presented at the 12th Annual Organization for the Study of Sex Differences Conference, Atlanta, Georgia.

Saunders, M.A., Jagielo-Miller, J.E., Prendergast, M.A. (2017). Daidzein induces cytoprotection against binge-like ethanol exposure *in vitro*: Role of High Mobility Group Box 1 protein? Presented at the 47th Annual Meeting for Society for Neuroscience, Washington D.C.

McLaughlin, P.J., Normann, M.C., Jagielo-Miller, J.E., Proper, T.M., and Hardy, R.M. (2017). Clonidine mildly reduces impulsive behavior at sub-sedating doses that also impair sustained attention in male rats. Presented at 47th Annual Meeting of Society for Neuroscience, Washington D.C.

Saunders, M.A., **Jagielo-Miller, J.E.**, Prendergast, M.A. (2017) Daidzein Induces Cytoprotection Against Binge-Like Ethanol Exposure via Interactions with High Mobility Group Box 1 Protein *In Vitro*. Presented at *33rd Annual BGSFN Spring Neuroscience Day*, Lexington, Kentucky.

**Jagielo-Miller, J.E.**, and McLaughlin, P.J. (2016). Impacts of Exercise and Scopolamine on Rats’ memory in a Non-Spatial Maze Task. Presented at the Spring 2016 Friends of the Baron-Forness Library Reception at Edinboro University of Pennsylvania, Edinboro, PA.

Ferko, J.,Jagielo-Miller, J**.**, Buczkowski, S., and Foradori, M. (2016). The search for inhibitors of angiogenesis in the hemolymph of the fishing spider, *Dolomedes tenebrosus*. Poster presented at the 2016 Penn State Behrend-Sigma Xi Undergraduate Research and Creative Accomplishment Conference at Penn State Behrend University, Erie, Pennsylvania.

Ferko, J., **Jagielo-Miller, J.,** Buczkowski, S., and Foradori, M. (2016). The search for inhibitors of angiogenesis in the hemolymph of the fishing spider, *Dolomedes tenebrosus*. Poster presented at the Third Annual Celebration of Scholarship EUP campus April 6, 2016.

Wallace, J., Ferko, J., **Jagielo-Miller, J.**, Miljevic, D. and Foradori, M. (2015). The search for inhibitors of angiogenesis in the hemolymph of the fishing spider, *Dolomedes tenebrosus.* Poster presented at 46th Annual Commonwealth of Pennsylvania University Biologists at Indiana University of Pennsylvania, Indiana Pennsylvania.

**Jagielo-Miller, J.E.**, Plyer, E.S., Proper, T.M., Myers, F.M., Luskin, C.M., Normann, M.C., Vemuri, K., Makriyannis, A., McLaughlin, P.J. (2015). Serotonin 5HT1A receptor blockade potentiates impulsive effects of a cannabinoid CB1 receptor inverse agonist, but not a neutral antagonist in rats: Possible relevance for pharmaceutical safety. Poster presented at 45th Annual Meeting of the Society for Neuroscience, Chicago.

McLaughlin, P., Jagielo-Miller, J., Proper, T., Plyler, E., Myers, F., Luskin, C., Normann, M.C. (2015). 5HT1A antagonism potentiates cannabinoid CB1 antagonist-induced impulsive responding in male rats. Poster presented at 27th Annual APS Convention, New York City.

**Jagielo-Miller, J.E.**, Proper, T. M., Normann M. C., and McLaughlin, P. J. (2015). A novel cannabinoid CB1 antagonist with therapeutic potential shows no sign of impulsive responding in rats. Poster presented at the 43rd Annual Western Pennsylvania Undergraduate Psychology Conference at Mercyhurst University, Erie, PA

**Jagielo-Miller, J.E.**, Proper, T. M., Normann M. C., and McLaughlin, P. J. (2015). A novel cannabinoid CB1 antagonist with therapeutic potential shows no sign of impulsive responding in rats. Poster presented at the Second Annual Celebration of Scholarship EUP campus April 1, 2015.

Drozdowski, R.E., **Jagielo-Miller, J.E.**, Myers, F. M., & McLaughlin, P. J. (2014). Time perceptions impacts rats’ performance of a counting task. Poster Presented at the 42nd Annual Western Pennsylvania Undergraduate Psychology Conference at Geneva College, Beaver Falls, PA.

**Jagielo-Miller, J.E.**, and McLaughlin, P.J. (2014). The cannabinoid CB1 antagonist AM 6527 reduce responding for food in a manner consistent with both satiation and attenuated reward value in rats. Poster presented at Celebration of Scholarship EUP campus March 26, 2014.

Thompson, E. E., **Jagielo-Miller, J.E.**, Vemuri, V. K., Makriyannis, A., &

McLaughlin, P. J. (2013). The cannabinoid CB1 antagonist AM 6527 reduces responding for food in a manner consistent with both satiation and attenuated reward value in rats. Poster presented for presentation at the 43rd Annual Meeting of the Society for Neuroscience, San Diego.

**Jagielo-Miller, J.E.**, and McLaughlin, P.J. (2013). Effects of AM 251, a cannabinoid CB1 receptor inverse agonist, on aversive learning. Poster presented at The 41st Annual Western Pennsylvania Undergraduate Psychology Conference at Allegheny College, Meadville, PA.

**Related Experience, Training, And Continuing Education**

2023 Responsible Conduct of Research Training (in person, University of Kentucky)

2021 CITI Training-Responsible Conduct Refresher

2021 Treating Fear and Anxiety: Problem Specific Approaches-Martin Antony

(2-day webinar).

2020-present T32 National Collaborative Seminar Series

2020 CITI Training-Responsible Conduct

2020 Continuing Education: Syringe and Needles

2020 Continuing Education: Refresher-Working with the IACUC

2020 CITI Training-Group 1 Biomedical Investigators and Key Personnel Refresher

2019 Making Mindfulness Stick: The Neuroscience on Mindfulness and Compassion-

Christopher Willard (2-day conference). Lancaster, PA.

2019 Good Research Practices Workshop: Methods to Promote Data Reproducibility in Laboratory Research

2019-present Environmental Health and Safety Training: Autoclave, General

2019-present Environmental Health and Safety Training: Biosafety, General

2016-present Environmental Health and Safety Training: Hazardous Waste, General

2016-present Environmental Health and Safety Training: Fire Extinguisher Use

2016-present Environmental Health and Safety Training: Chemical Hygiene Plan/Laboratory

Safety

2016 Continuing Education: Working with the IACUC

2016 CITI Training-Group 1 Biomedical Investigators and Key Personnel

2014-2015 Laboratory Animal Care Experience

2012-2013 Outpatient Veterinary Nurse at Camboro Veterinary Hospital, Edinboro, PA

**Service**

2017-2018 Student Research Mentor, Summer Training in Alcohol Research, University of Kentucky

2017 Outreach Experience at Elementary Schools

2016 Mentor for Equine Assisted Psychotherapy

2015-2016 Academic Appeals Committee student member

2014-2016 Committee of Fact Member

2013 Pennsylvania Junior Academy of Science (region 10) regional judge

2009-2012 Religious Education Teacher

**Study Abroad**

2015 Polish culture class

2013 African Conservation Experience (A.C.E.) in South Africa and Botswana