

Kari Haines

Pronouns: They/them/any

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Education

- Dec 2024 (expected)
Indianapolis, IN
- Ph.D. in Psychology, Addiction Neuroscience**
Indiana University-Purdue University Indianapolis
Advisor: Dr. Cristine Czachowski
Dissertation Title: Analyzing the Effects of Gonadal Hormones on Alcohol-Seeking and -Drinking Behaviors in Female and Male Rats
- Dec 2020
Indianapolis, IN
- Master of Science in Addiction Neuroscience**
Indiana University-Purdue University Indianapolis
Advisor: Dr. Cristine Czachowski
Master's Thesis Title: Exploring the Effects of a Corticotropin Releasing Factor (CRF) Receptor Antagonist on Habit Expression
- May 2017
Towson, MD
- Master of Arts in Experimental Psychology**
Towson University
Advisor: Dr. Paul Pistell
Master's Thesis Title: Evaluating Sex Differences in Procedural Learning and Memory Deficits Caused by 3-Nitropropionic Acid
- May 2015
Towson, MD
- Bachelor of Science in Psychology**
Towson University
Minor in LGBT (Lesbian, Gay, Bisexual, Transgender) Studies
Cum Laude, Psychology Departmental Honors
Advisor: Dr. Paul Pistell

Research Experience

Biopsychology:

- 2018 – Present
- Research Assistant / Graduate Student*
Indiana University-Purdue University Indianapolis
Mentor: Dr. Cristine Czachowski
Research Focus: Sex differences, habit learning, aversion resistant drinking, and ethanol-seeking in selectively bred rats
- 2016 – 2018
- Oak Ridge Institute for Science and Education (ORISE) Fellow*
US Army Medical Research Institute of Chemical Defense (USAMRICD)
Aberdeen Proving Ground – Edgewood, MD
Mentor: Dr. John McDonough
Research Focus: Identifying novel treatments for nerve agent-induced seizures. As a research fellow with a master's degree, I was trusted with coordinating several NIH-funded projects. This experience allowed me to further develop my rodent surgical, data analysis, project management, and laboratory management skills.
- 2013 – 2017
- Research Assistant / Undergraduate and Graduate Student*
Behavioral Neuroscience Lab, Towson University
Mentor: Dr. Paul Pistell
Research Focus: Sex differences in learning and memory in models of aging

Sexual and Gender Identity:

2014 – 2018

Research Team Member

Gender Identity and Sexuality Lab, Towson University

Mentor: Dr. M. Paz Galupo

Research Focus: LGBTQ family microaggressions and assessment of differences in conceptualization of sex, gender, and sexual orientation across sexual minority groups

Laboratory Skills / Techniques

Animal Behavior: Behavioral genetics, MEDPC operant training and testing, Stone T-Maze, and rotarod.

Stereotaxic Surgery: EEG lead implantation in adult rats, pediatric rats, and mice; including anesthesia monitoring, aseptic technique, suturing, post-operative care.

Other Laboratory Techniques: Injections, animal handling and observation, project coordination, EEG interpretation (use of Spike2 computer software), perfusions, brain extraction, drug preparation (dose calculations, syringe preparation), rat pup weaning and sexing, histopathology evaluation, mouse colony husbandry.

Software Skills

Data Analysis and Presentation:

- SPSS
- GraphPad Prism
- Excel
- Adobe Photoshop

Data Collection Software:

- Spike2 (EEG recording software)
- FIJI (histology)
- Biopac MP 150 Systems
- AcqKnowledge 4.4

Publications

K.M. Haines, N. Smith, C. L. Czachowski (in prep – submission target Fall 2023). Examining aversion resistant drinking in female and male alcohol preferring and non-preferring rats. *Alcohol Clinical and Experimental Research*

6) **K.M. Haines**, C. L. Czachowski (2022). Evaluating habit formation across pairs of female and male selectively bred preferring and non-preferring rats. *Alcohol*. PMID: 35500755

5) H. S. McCarren, M. Eisen, D. Nguyen, P. Dubee, C. Ardinger, E. Dunn, **K.M. Haines**, A. Santoro, P. Bodner, C. Ondeck, C. Honnold, J. H. McDonough, P. Beske, P. McNutt. (2020). Characterization and treatment of spontaneous recurrent seizures following nerve agent-induced status epilepticus in mice. *Epilepsy Research*. PMID: 32182542

4) E. Dunn, L. Matson, **K.M. Haines**, K. Whitten, R. B. Lee-Stubbs, K. Berger, H. S. McCarren, C. Ardinger, C. Jackson-Piercy, S. M. Miller-Smith, J. H. McDonough. (2020). Evaluation of fosphenytoin, levetiracetam and propofol as treatments for nerve agent-induced seizures in pediatric and adult rats. *Neurotoxicology*, PMID: 32220603.

3) L. Matson, E. Dunn, **K.M. Haines**, S. Miller-Smith, R. Lee-Stubbs, K. Whitten, C. Ardinger, H. McCarren, J. H. McDonough. (2019). Evaluation of first line anticonvulsants to treat nerve agent-induced seizures and prevent neuropathology in adult and pediatric rats. *Toxicology*. PMID: 31362008

2) **K.M. Haines**, L. Matson, E. Dunn, C. Ardinger, D. Bibi, J. H. McDonough, M. Bialer (2018) Comparative efficacy of valnoctamide and sec-butylpropylacetamide (SPD) in terminating nerve agent-induced seizures in pediatric rats. *Epilepsia*. PMID: 30615805

1) **K. M. Haines**, C. R. Boyer, C. Giovanazzi, M.P. Galupo (2018). "Not a real family": Microaggressions directed toward LGBTQ families. *Journal of Homosexuality*, PMID: 29144852

Leadership

2021-2023 IUPUI	Graduate Students Out in STEM <i>Treasurer (2021), Vice President (2022)</i>
2021-2022 IUPUI	<i>Co-Chair</i> Psychology Graduate Student Diversity Committee
2018-2022 IUPUI	<i>Addiction Neuroscience Representative and <u>Founding Member</u></i> Psychology Graduate Student Diversity Committee, IUPUI
2014-2015 Towson University	<i>Vice President</i> Psi Chi, National Honors Society in Psychology

Teaching Experience

2022-Present 3 sections	<i>Instructor of Record</i> Statistics , IUPUI <i>Duties:</i> I planned and taught twice weekly lectures, created practice problems, quizzes, and exams. Created the syllabus, course schedule, and Canvas site.
2021-2022 3 sections	<i>Instructor of Record</i> Introduction to Psychology , IUPUI <i>Duties:</i> I taught twice weekly lectures, graded final papers and assignments, maintained the course Canvas site, and responded to student emails.
2020 2 sections	<i>Graduate Teaching Assistant</i> Foundations of Neuroscience , IUPUI <i>Advisor:</i> Dr. Bethany Neal-Beliveau <i>Duties:</i> Taught weekly in-person sections, graded student papers, developed and graded weekly assignments.
2018-2019 2 sections	<i>Graduate Teaching Assistant</i> Research Methods Lab , IUPUI <i>Advisor:</i> Dr. Robert Stewart <i>Duties:</i> Taught weekly lab sections, facilitated students in writing research projects, graded in-class assignments and research papers
	Statistics Lab , IUPUI <i>Advisor:</i> Dr. Katherine Adams <i>Duties:</i> Taught weekly lab sections, facilitated students in applying statistical knowledge, graded in-class assignments

Conference Presentations / Published Abstracts

21) Evaluating aversion resistant drinking with alcohol seeking and self-administration across alcohol preferring rodent lines (Jun 2023). **K. M. Haines**, M. DeLory, C. L. Czachowski. Poster presented at the *Research Society on Alcohol* Conference. Bellevue, WA.

20) Comparing aversion resistant drinking across alcohol preferring and non-preferring rodent lines (Jun 2022). **K. M. Haines**, M. DeLory, C. L. Czachowski. Poster presented at the *Research Society on Alcoholism* Conference. Orlando, FL.

- 19) Evaluation habit learning across three alcohol preferring rat strains (Jun 2021). **K. M. Haines**, M. DeLory, C. L. Czachowski. Abstract shared virtually at the *Research Society on Alcoholism* Conference.
- 18) Examining habit across alcohol preferring rat strains (Mar 2021). **K. M. Haines**, M. DeLory, C. L. Czachowski. Poster presented virtually at the *Greater Indiana Society for Neuroscience* Conference.
- 17) Aversion resistant drinking: A comparison across alcohol preferring rodent lines and sex. (Jun 2020). **K. M. Haines**, M. DeLory, C. L. Czachowski. Abstract accepted. *Research Society on Alcoholism* Conference.
- 16) Evaluation of allopregnanolone as treatment for nerve agent-induced status epilepticus in pediatric and adult rats (Mar 2019). E. Dunn, K. Taylor, K. Whitten, L. M. Matson, **K. M. Haines**, K. Berger, H. M. McCarren, J. H. McDonough. Poster presented at *Society of Toxicology's* Annual Meeting, Baltimore, MD.
- 15) D. Nguyen, M. Eisen, C. Ardinger, E. Dunn, **K. M. Haines**, A. Santoro, P. Bodner, C. Ondeck, P. Dubee, H. McCarren, P. Beske, P. McNutt (Mar 2019) Evaluation of repurposed antiepileptic drugs to treat spontaneous recurrent seizures in instrumented male C57BL/6 mice following a sublethal soman exposure. Poster presented at *Society of Toxicology's* Annual Meeting, Baltimore, MD.
- 14) Assessment of three anticonvulsants to treat nerve agent-induced status epilepticus in pediatric and adult rats (May 2018). **K. M. Haines**, E. Dunn, L. M. Matson, A. N. Santoro, H. S. McCarren, S. M. Miller-Smith, J. H. McDonough. Poster presented at *Bioscience Review: Advances in Medical Chemical Defense*, Edgewood, MD.
- 13) Levetiracetam does not enhance the anticonvulsant efficacy of diazepam against nerve agent-induced status epilepticus (May 2018). K. M. Winter, **K. M. Haines**, H. S. McCarren, J. H. McDonough. Poster presented at *Bioscience Review: Advances in Medical Chemical Defense*, Edgewood, MD.
- 12) An evaluation of repurposed FDA-Approved antiepileptic drugs in order to treat spontaneous recurrent seizures following a sublethal soman exposure in instrumented male C57BL/6 mice (May 2018). D. L. Nguyen, C. Ardinger, E. Dunn, M. R. Eisen, **K. M. Haines**, A. N. Santoro, H. S. McCarren, P. M. McNutt. Poster presented at *Bioscience Review: Advances in Medical Chemical Defense*, Edgewood, MD.
- 11) Automated electroencephalogram analysis for identifying and measuring spontaneous recurrent seizures and epileptiform activity following soman exposure in mice (May 2018). P. B. Dubée, C. Ardinger, P. M. Bodner, M. R. Eisen, **K. M. Haines**, D. L. Nguyen, K. T. Pagarigan, A. N. Santoro, H. S. McCarren, P. M. McNutt. Poster presented at *Bioscience Review: Advances in Medical Chemical Defense*, Edgewood, MD.
- 10) The development of a long-term survivable mouse model to treat spontaneous recurrent seizures following nerve agent exposure (May 2018). E. Dunn, C. Ardinger, M. R. Eisen, **K. M. Haines**, D. L. Nguyen, A. N. Santoro, H. S. McCarren, P. M. McNutt. Poster presented at *Bioscience Review: Advances in Medical Chemical Defense*, Edgewood, MD.
- 9) Assessment of midazolam and diazepam to treat nerve agent-induced seizures in pediatric and adult rats (Nov 2017). **K. M. Haines**, E. Dunn, L. M. Matson, A. N. Santoro, H. S. McCarren, S. M. Miller-Smith, J. H. McDonough. Poster presented at the *Society for Neuroscience* Conference, Washington, D. C.
- 8) Evaluation of anticonvulsants to treat nerve agent-induced seizures and prevent brain damage in pediatric rats (Jun 2017). L. M. Matson, **K. M. Haines**, E. Dunn, C. Ardinger, H. S. McCarren, S. M. Miller-Smith, J. H. McDonough. Talk presented at the *71F Short Course (PPSC) at WRAIR*.
- 7) Evaluation of anticonvulsants to treat nerve agent- and pesticide-induced seizures and prevent brain damage in pediatric rats (Jun 2017). L. M. Matson, E. Scholl, **K. M. Haines**, E. Dunn, P. Roper, N. Simon,

E. Mattias, J. H. McDonough, E. Dudek. Poster presented at *NIH Countermeasures against Chemical Threats (CounterACT) Meeting*, Boston, MA.

6) Evaluation of midazolam and diazepam to treat nerve agent-induced seizures in pediatric and adult rats (Mar 2017). **K. M. Haines**, L. M. Matson, C. Ardinger, E. Dunn, H. S. McCarren, S. M. Miller-Smith, J. H. McDonough. Poster presented at *Society of Toxicology's Annual Meeting*, Baltimore, MD.

5) Evaluation of anticonvulsant treatments for nerve agent-induced seizures in pediatric and adult rats (Mar 2017). L. M. Matson, **K. M. Haines**, C. Ardinger, E. Dunn, H. S. McCarren, S. M. Miller-Smith, J. H. McDonough. Poster presented virtually at the *Shores Meeting*.

4) C. Ardinger, **K.M. Haines**, P. Pistell (May 2016) A comparison of 3NP dosing schedules to create an accelerated aging model in mice. Poster presented at *Association for Psychological Science's (APS) Conference*, Chicago, IL.

3) Watch Out! Physiological Responses Induced by a New Set of Standardized Contemporary Emotion Eliciting Films (Apr 2016). **K. M. Haines**, N. Jamil, J. Rothweiler, J. McGinley. Poster presented at *The Student Research Expo, Towson University*, Towson, MD.

2) **K. M. Haines**, C. Ardinger, P. Pistell (Apr 2015) The use of 3-Nitropropionic acid to create an aging model in mice. Poster presented at *The Student Research Expo, Towson University*, Towson, MD.

1) C. Ardinger, **K. M. Haines**, J. Barry, L. Hyang, S. Peters, P. Pistell (Mar 2014) Evaluation of 3NP as a model of memory impairment in the mouse Stone T-maze. Poster presented at *Hunter College Psychology Convention*, New York City, NY.

Selected Workshops

Jul – Aug 2020
IUPUI

Psychology 595: Seminar in Teaching Student

This optional, one-credit summer course serves as a workshop for students interested in developing teaching skills. As a student in this course, I learned about and discussed concepts such as Bloom's Taxonomy, backwards course design, and the 'Transparency in Learning and Teaching Format.' I implemented these and other pedagogical ideas through creating a rubric, an assignment, a syllabus, and teaching a sample lesson to the class.

Honors / Awards

2023	Psychology Outstanding Graduate Student Teaching Award, IUPUI
2022	Second Place Student Winner Poster Presentation, Stark Neurosciences Research Institute Summer Science Symposium
2022	Student Winner IUPUI Harvey Milk Award, IUPUI
2022	Research Society on Alcoholism Student Merit Award
2022	Paul J. McKinley Outreach, Public Engagement, and Diversity award, IUPUI
2015	LGBT Department Award- Highest GPA for Graduating Senior, Towson University
2014 - Present	Psi Chi, National Honors Society in Psychology member, Towson University