

Kristen Schuh

Department of Psychology, University of Michigan

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EDUCATION

- In Progress* **Doctor of Philosophy, Brain & Behavior**, GPA: 4.0
University of Michigan, Ann Arbor, MI
- 2020-2022* **Masters of Science, Biopsychology**, GPA: 4.0
University of Michigan, Ann Arbor, MI
- 2016- 2020* **Bachelor of Arts, Psychology major and Neuroscience co-major**, GPA: 3.7
Miami University, Oxford, OH

RESEARCH EXPERIENCE

- 2020-present* **Graduate Student**, Laboratory of Memory Modulation, Psychology Department, University of Michigan, Ann Arbor, MI
Advisor: Natalie C. Tronson, PhD
Thesis: Regulation of stress and depression by oral contraceptives
- Developed and characterized a novel mouse model of oral contraceptive exposure.
 - Investigated the effects of oral contraceptives on depression- and anxiety-like behavior and the stress response.
 - Proficient in behavioral methodology, hormone administration, sectioning of brain tissue, intracardiac perfusions, saphenous vein blood draws, RNAscope, immunohistochemistry, and quantitative polymerase chain reaction (qpcr).
 - Well-versed in data analysis and experimental design using GraphPad Prism, R, MedPC, and EthoVision.
- 2017-2020* **Research Assistant**, Reward and Addictive Disorders Lab, Psychology Department, Miami University, Oxford, OH
Advisor: Anna K. Radke, PhD
Honors Thesis: Cortical contributions to aversion-resistant alcohol drinking in mice
- Proficient in fear conditioning, operant conditioning paradigms, home cage alcohol drinking paradigms, stereotaxic surgery (intracerebral injection of AAV viruses [chemogenetics]), sectioning of brain tissue, and intracardiac perfusions.
 - Wrote a funded original research proposal. Presented original research in poster format.
 - Wrote an amendment to an approved IACUC protocol.
 - Attended weekly lab meetings and journal clubs, read original research articles, discussed current issues in behavioral neuroscience, research design and analysis, and research ethics.
 - Experience in handling, scruffing, and injections of mice.
 - Utilized GraphPad Prism, MedPC, and ANY-maze software.
- 2017* **Research Assistant**, Bariatric Center, St. Vincent Carmel Hospital, Carmel, IN
Advisors: David B. Creel, PhD and Leslie M. Schuh, PhD
- Performed human research to analyze long-term weight, medical, and psychological effects of bariatric surgery.
 - Attended an IRB meeting to understand the clinical research review process.

RESEARCH AWARDS AND FUNDING

- 2024-2026* NIH F31 Ruth L. Kirschstein National Research Service Award Individual Predoctoral Fellowship, \$84,862
Project Title: Regulation of stress and depression by hormonal contraceptives

2025	Organization for the Study of Sex Differences, Florence P. Haseltine Award, \$200
2025	Susan Webb Graduate Student Fellowship, \$1000
2024	2024 OSSD NIH and FDA-Sponsored Travel Award, Organization for the Study of Sex Differences, \$1000
2023	Pillsbury Graduate Research Award, University of Michigan, \$2000
2021	Society for Neuroscience, Trainee Professional Development Award, \$1,000 <u>Project Title:</u> A mouse model of oral contraceptive exposure: effects on depression-like behavior
2019	Miami University, Doctoral Undergraduate Opportunity Scholarship <u>Project Title:</u> A Pharmacological Investigation of the Role of D1 and D2 Receptors in Compulsive-like Alcohol Drinking
2019	Miami University, Undergraduate Summer Scholar Award, \$1000 <u>Project Title:</u> Neural Pathways Involved in Aversion- Resistant Drinking
2018-2019	Miami University, College of Arts and Science Dean's Scholarship, \$1500
2018	Miami University, Undergraduate Summer Scholar Award, \$1000 <u>Project Title:</u> Cortical Pathways Involved in Compulsive-Like Alcohol Drinking
2017-2018	Miami University, Undergraduate Research Award, \$750 <u>Project Title:</u> Contributions of Distinct Populations of Mesolimbic Dopamine Neurons to Morphine Reward

HONORS

2022	National Science Foundation, Graduate Research Fellowship Program, Honorable Mention
2016-2020	Dean's List, Miami University
2016-2020	Red Hawk Excellence Scholarship, Miami University
2019	Family Fund Grant, Miami University
2019	Division 28 APA Convention Undergraduate Scholarship, American Psychological Association
2018	Honors in Psychology, Miami University

PUBLICATIONS

1. **Schuh KM**, Conrad LM, Tronson NC. (2025). Hormonal contraceptives modulate resilience to psychiatric and neurodegenerative disease. *Hormones & Behavior*. 176, 105823. <https://doi.org/10.1016/j.yhbeh.2025.105823>.
2. Perry TW, Carvour HM, Reichert AN, Sneddon EA, Roemer CAEG, Gao YY, **Schuh KM**, Shand NA, Quinn JJ, Radke AK. (2025). Early life stress paired with adolescent alcohol consumption reduces two-bottle choice alcohol consumption in mice. *Alcohol: Clinical and Experimental Research*. 00, 1–14. <https://doi.org/10.1111/acer.70004>.
3. **Schuh KM**, Ahmed J, Kwak E, Xu CX, Davis TT, Aronoff CB, Tronson NC. (2024). A mouse model of oral contraceptive exposure: depression, motivation, and the stress response. *Hormones & Behavior*. 158, 105470. <https://doi.org/10.1016/j.yhbeh.2023.105470>.
4. Lacasse JM, Heller C, Kheloui S, Ismail N, Raval AP, **Schuh KM**, Tronson NC, Leuner B. (2024). Beyond Birth Control: The Neuroscience of Hormonal Contraceptives. *Journal of Neuroscience*. 44, 40. <https://doi.org/10.1523/JNEUROSCI.1235-24.2024>.
5. Tronson NC, **Schuh KM**. (2023). Hormonal contraceptives, stress, and the brain: The critical need for animal models. *Frontiers in Neuroendocrinology*, 67, 101035. <https://doi.org/10.1016/j.yfrne.2022.101035>.
6. Sneddon EA, Fennell KA, Bhati S, Setters JE, **Schuh KM**, DeMedio JN, Arnold BJ, Monroe SC, Quinn JJ, & Radke, AK. (2023). Greater resistance to footshock punishment in female C57BL/6J mice responding for ethanol. <https://doi.org/10.1101/2022.08.05.502979>.
7. Perry TW, Sneddon EA, Reichert AN, **Schuh KM**, Shand NA, Quinn JJ, & Radke AK. (2023). Sex, but not early life stress, effects on two-bottle choice alcohol drinking behaviors in mice. <https://doi.org/10.1101/2023.01.21.524642>.

8. Sneddon EA, **Schuh KM**, Fennell KA, Grahame NJ, Radke AK. (2022). Crossed high-alcohol-preferring mice exhibit aversion-resistant responding for alcohol with quinine but not foot shock punishment. *Alcohol*. <https://doi.org/10.1101/2022.08.05.502979>.
9. **Schuh KM**, Sneddon EA, Nader AM, Muench MA, Radke AK. (2021). Orbitofrontal cortex subregion inhibition during binge- and compulsive-like alcohol drinking. *Alcohol*, 99, 1-8. <https://doi.org/10.1016/j.alcohol.2021.11.004>
10. Herb Neff KM, Schuh LM, Saules KK, Creel DB, Stote JJ, **Schuh KM** & Inman M. (2021). Psychological functioning and health behaviors associated with weight loss patterns up to 13.7 years after weight loss surgery. *Journal of Clinical Psychology in Medical Settings*, 28(4), 833–843. <https://doi.org/10.1007/s10880-021-09807-y>
11. Sneddon EA, **Schuh KM**, Frankel JW, Radke AK. (2021). The contribution of medium spiny neuron subtypes in the nucleus accumbens core to compulsive-like ethanol drinking. *Neuropharmacology*, 187, 108497. <https://doi.org/10.1016/j.neuropharm.2021.108497>
12. Sneddon EA, Riddle CA, **Schuh KM**, Quinn JJ, Radke AK. (2020). Selective enhancement of fear learning and resistance to extinction in a mouse model of acute early life trauma. *Learning & Memory*, 28(1), 12–16. <https://doi.org/10.1101/lm.052373.120>

TALKS

1. Society for Behavioral Endocrinology. Speaker. Virtual. October 2025.
2. NICHD Flash Talk. Speaker. Virtual. February 2025.
3. Society for Neuroscience Minisymposium: Beyond Birth Control: The Neuroscience of Hormonal Contraceptives. Speaker. Chicago, IL. October 2024.
4. U-M Neuroscience Conference. Speaker. Ann Arbor, MI. May 2024.
5. 24th Annual Pat Gurin Distinguished Lecture. Speaker. Ann Arbor, MI. February 2024.
6. Virtual Meet a Scientist. Women+ Excelling More in Math, Engineering, and the Sciences (FEMMES). Speaker. Virtual. March 2022.
7. Biopsychology Colloquium: 619 Presentation. Speaker. Ann Arbor, MI. February 2022.

TEACHING AND MENTORING

- 2020-present** **Mentor**, Tronson lab, Psychology Department, University of Michigan, Ann Arbor, MI
- Mentored 16 undergraduate research assistants, including three honors theses students, five rotation graduate students, six summer research students, and two lab managers.
 - Awarded the 2025 Psychology Excellence in Mentoring Award
 - Nominated for the 2023 Psychology Excellence in Mentoring Award by four of my undergraduate mentees
- 2020-2024** **Graduate Student Instructor**, Psychology Department, University of Michigan, Ann Arbor, MI
- Nominated by the Biopsychology department for the Outstanding Graduate Student Instructor Award
- Hormonal Contraceptives and the Brain*
- Designed and taught my own upper-level undergraduate class for two semesters.
- Introduction to Behavioral Neuroscience*
- Lead Graduate Student Instructor for two semesters
 - Taught behavioral neuroscience to ten classes of students over four semesters, taught with Dr. Gideon Rothschild, Dr. Kent Berridge, and Dr. Martin Sarter.
- 2019-2020** **Undergraduate Teaching Assistant**, *Broadening Undergraduate Research Participation in Behavioral Neuroscience*, Psychology Department, Miami University, Oxford, OH
- Supported a class of 20 students learning research skills in behavioral neuroscience

- 2017-2020 **Tutor**, *Center for Psychological Inquiry*, Department of Psychology, Miami University, Oxford, OH
- Tutored undergraduate students in psychology, neuroscience, statistics, and writing.

SERVICE

Department/University

- 2024-2025 **Admissions Committee**, University of Michigan, one of two graduate students on the admissions committee for Biopsychology
- 2023-2024 **EquilibriUM Magazine**, co-editor in chief of a STEAMM magazine designed to make research and researchers more engaging and tangible to a lay audience
- 2024 **Graduate Student Instructor Panel**, University of Michigan Psychology, one of six expert graduate student instructors, shared my experiences and offered advice for success
- 2023 **Social Committee**, University of Michigan, organized events to improve community in the Biopsychology area
- 2022-2023 **Admissions Committee**, University of Michigan, one of two graduate students on the admissions committee for Biopsychology
- 2021 **Alumni Panel**, Student Organization for Undergraduate Research and Career Exploration, Miami University, participated in an alumni panel to share my path to graduate school
- 2019-2020 **Co-President**, Nu Rho Psi Club, Miami University, led event planning to spread awareness about important neuroscience topics and provide members with a support group
- 2018-2019 **Psychology Open House**, Miami University, disseminated information about the Neuroscience programs and research offered at Miami University to students and community members

Outreach & Science Policy

- 2023 **BrainsRule**, educated sixth graders about the brain using games and activities
- 2022-2023 **Early Career Policy Ambassadors Program**, Society for Neuroscience, developed skills to advocate more effectively for science funding
- 2022 **Science Communication Fellow**, University of Michigan Museum of Natural History, gained skills in science communication to audiences of all ages
- 2022 **Society for Neuroscience Capitol Hill Day**, shared my research with congress and representatives and advocated for funding and support of animal research
- 2022 **Virtual Meet a Scientist**, Women+ Excelling More in Math, Engineering, and the Sciences (FEMMES), discussed my research with middle school children
- 2021-2022 **Scientist Spotlight events**, University of Michigan Museum of Natural History, set up an interactive booth to teach kids of all ages about my research
- 2019 **Statehouse Takeover Day**, Ohio Statehouse, shared my research with legislators and advocated for funding scientific research
- 2019 **Talawanda Elementary School Outreach**, Miami University, taught neuroscience to elementary school children using games, crafts, and other activities
- 2018 **Science Week**, Miami University, taught neuroanatomy to elementary school children
- 2016-2018 **Medical-Surgical and Emergency Departments**, St. Vincent Carmel Hospital, responded to intercom, called nurses, cleaned rooms, restocked nurses' stations, and transported patients

AFFILIATIONS

- 2025- Present Society for Behavioral Neuroendocrinology
- 2023- Present Michigan Biological Research Initiative on Sex Differences in Cardiovascular Disease
- 2022-Present Organization for the Society of Sex Differences
- 2021-Present Society for Neuroscience
- 2019-2020 American Psychological Association
- 2019-2020 *Nu Rho Psi*
- National Honor Society in Neuroscience
- 2018-2020 Miami University Chapter of Psi Chi

- International honors society in psychology that promotes excellence in the field of psychology
- 2018-2020 National Society of Collegiate Scholars
- Honors society that positively impacts communities through service
- 2017-2020 Sigma Alpha Phi
- Leadership fraternity that teaches skills for better communication and leadership

POSTER PRESENTATIONS

1. **Schuh KM**, Ludmir D, Woock M, Tronson NC. (2025). Regulation of stress and depression by oral contraceptives. Society for Neuroscience, San Diego, CA.
2. **Schuh KM**, Ludmir D, Woock M, Tronson NC. (2025). Oral contraceptives' effect on the HPA-axis and risk for depression-like behavior. Organization for the Study of Sex Differences, Albuquerque, NM.
3. **Schuh KM**, Woock M, He Y, Romano E, Ludmir D, Tronson NC. (2025). Oral contraceptives' effect on the HPA-axis and risk for depression-like behavior. Organization for the Study of Sex Differences, Durham, NC.
4. **Schuh KM**, Ahmed J, Kwak E, Xu CX, Tronson NC. (2024). Regulation of stress and mood in a mouse model of oral contraceptives. Organization for the Society of Sex Differences, Bergen, Norway.
5. **Schuh KM**, Davis J, Ahmed J, Tronson NC. (2023). Regulation of stress and mood in a mouse model of oral contraceptives. Society for Neuroscience, Washington, D.C.
6. **Schuh KM**, Davis J, Ahmed J, Tronson NC. (2023). Regulation of stress and anhedonia in a mouse model of hormonal contraceptives. Society for Neuroscience, East Lansing, MI.
7. **Schuh KM**, Davis J, Ahmed J, Tronson NC. (2023). Regulation of stress and anhedonia in a mouse model of hormonal contraceptives. Organization for the Society of Sex Differences, Calgary, AB, Canada.
8. **Schuh KM**, Davis J, Ahmed J, Tronson NC. (2022). Hormonal contraceptives, depression, and motivation: a mouse model. Society for Neuroscience, San Diego, CA.
9. **Schuh KM**, Davis J, Ahmed J, Tronson NC. (2022). Oral Contraceptives: Stress responses, Depression, and Motivation in Mice. Organization for the Society of Sex Differences, Los Angeles, CA.
10. **Schuh KM**, Davis J, Ahmed J, Tronson NC. (2021). Hormonal contraceptives, depression, and motivation: a mouse model. Society for Neuroscience, virtual conference.
11. **Schuh KM**, Giffin KA, Choi HK, Tronson NC. (2021). COVID-like inflammation contributes to memory impairments and age-related cognitive decline. 2021 Pavlovian Society Meeting, Ann Arbor, MI.
12. Sneddon EA, Riddle CA, **Schuh KM**, Quinn JJ, Radke AK. (2020). Selective enhancement of fear learning and resistance to extinction in a mouse model of acute early life trauma. 2020 Pavlovian Society Meeting, Virtual.
13. **Schuh KM**, Sneddon EA, Radke AK (2020). Cortical contributions to compulsive-like alcohol drinking. *19th Annual Stephen Hinkle Memorial Poster Session, 25th Annual Undergraduate Research Forum, Oxford, OH.*
14. **Schuh KM**, Sneddon EA, Quinn JJ, Radke AK. (2019). Enhanced emotional memory formation and alcohol consumption in mice exposed to early life stress during infancy. Society for Neuroscience, Chicago, IL.
15. **Schuh KM**, Sneddon EA, Quinn JJ, Radke AK. (2019). The effects of early life stress on enhanced fear learning, behavioral flexibility, and hippocampal-dependent learning. Statehouse Takeover Day, Columbus, OH.
16. Monroe S, **Schuh KM**, Radke AK. (2019) Aversion-resistant oral fentanyl self-administration in mice. Presented at the *Graduate Research Forum*, Oxford, OH.
17. Monroe S, **Schuh KM**, Radke AK. (2019) Aversion-resistant oral fentanyl self-administration in mice. Presented at the *Society for Neuroscience 2019 annual meeting*, Chicago, IL.

18. **Schuh KM**, Sneddon EA, & Radke AK. (2019). The effects of early life stress on enhanced fear learning, anxiety, and behavioral flexibility. *18th Annual Stephen Hinkle Memorial Poster Session, 25th Annual Undergraduate Research Forum, and 17th Annual Symposium of Cell, Molecular, and Structural Biology*, Oxford, OH.
19. Schuh LM, Creel DB, Stote JJ, **Schuh KM**, Siddiqui S, Sivakumar J, Cacucci B, Diaz D, Evanson C, Kaderabek D, Inman M. (2019). Weight trajectories and psychological outcomes up to 13.7 years after weight loss surgery. *Annual meeting of the American Psychological Association*, Chicago, IL.
20. Monroe S, **Schuh KM**, Radke AK. (2019) Development of a mouse model of compulsive-like oral fentanyl self-administration. *Midwestern Psychological Association 2019 Conference*, Chicago, IL.
21. Sneddon EA, Frankel J, Nader A, **Schuh KM**, Setters J, Radke AK. (2018) A chemogenetic investigation of the striatal and cortical contributions to aversion-resistant alcohol drinking. *Society for Neuroscience Annual Meeting*, San Diego, CA.
22. Saules KK, Schuh LM, Creel DB, Stote JJ, **Schuh KM**. (2018). Correlates of physical activity 10+ years after bariatric surgery. *Annual Meeting of the American Society of Metabolic and Bariatric Surgery and the Obesity Society*, Nashville, TN.
23. Schuh LM, Creel DB, **Schuh KM**, Siddiqui S, Stote JJ, Cacucci B, Diaz D, Evanson C, Kaderabek D, Inman M. (2018) Weight, medical, and psychological outcomes up to 13.7 years after bariatric surgery. *Annual Meeting of the American Society of Metabolic and Bariatric Surgery and the Obesity Society*, Nashville, TN.
24. **Schuh KM**, Sneddon EA, Radke AK. (2018). Contributions of the nucleus accumbens and the medial prefrontal cortex to conditioned place preference. *Midwest Great Lakes Undergraduate Research Symposium in Neuroscience*, Delaware, OH.
25. **Schuh KM**, Sneddon EA, Radke AK. (2018). Contributions of the nucleus accumbens and the medial prefrontal cortex to conditioned place preference. *Midwest Great Lakes Discover the Sciences*, Oxford, OH.
26. Sneddon EA, Frankel J, Nader A, **Schuh KM**, Setters, J, Radke, AK. (2018) Nucleus accumbens contributions to aversion-resistant alcohol drinking. *16th Annual Symposium of Cell Molecular and Structural Biology*, Oxford, OH.
27. Ramsey O, **Schuh KM**, Radke AK. (2018) Role of medial orbitofrontal cortex in resistance to punishment. *Hinkle Poster Session*, Oxford, Ohio.
28. Ramsey O, **Schuh KM**, Radke AK. (2018) Role of medial orbitofrontal cortex in resistance to punishment. *Undergraduate Research Forum*, Oxford, Ohio.
29. Schuh LM, Creel DB, Karuman P, Franz B, **Schuh KM**, Siddiqui S, Cacucci B, Diaz D, Evanson C, Inman M, Kaderabek D. (2017) Predictors of bariatric outcome at 2 ½ years after Roux-en-Y gastric bypass or sleeve gastrectomy. *Annual Meeting of the American Society of Metabolic and Bariatric Surgery and the Obesity Society*, Washington, DC.
30. Creel D, Schuh L, Logan B, Franz B, Rodgers Z, **Schuh KM**, and Siddiqui S (2017) Perioperative completion predicts long-term follow-up with registered dietitians after bariatric surgery. *Annual Meeting of the Academy of Nutrition and Dietetics*, Chicago, IL.

ACKNOWLEDGEMENTS

1. Sneddon, EA, White RD, and Radke AK. (2019) Sex differences in binge-like and aversion-resistant alcohol drinking in C57BL/6J Mice. *Alcoholism, Clinical and Experimental Research*.
2. Launius KN, Schuh LM, Saules K, Landry C, Creel DB, Rodriguez L, Evanson C. (2022) Spiritual practices are associated with improved weight management following bariatric surgery. *Surgery for Obesity and Related Diseases*.

3. Launius KN, Herb Neff KM, Schuh LM, Saules KK, Creel DB, Inman MM. (2022) Long-term engagement in physical activity among bariatric surgery patients: Associations with treatment outcomes at 5-year follow-up.

REFERENCES

Natalie Tronson, PhD (Research Advisor)

Associate Professor- Department of Psychology

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Anna Radke, PhD (Research Advisor)

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