

KRISTEN E. PLEIL, Ph.D.

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Education & Experience

- 2016 – **Assistant Professor**
Department of Pharmacology
Weill Cornell Medicine, Cornell University, New York, NY
- 2015 – 2016 **Research Associate**
Department of Pharmacology & Bowles Center for Alcohol Studies
UNC School of Medicine, Chapel Hill, NC
- 2010 – 2015 **Postdoctoral Research Fellow**
Department of Pharmacology & Bowles Center for Alcohol Studies
UNC School of Medicine, Chapel Hill, NC
Postdoctoral Advisor: Thomas L. Kash, Ph.D.
 - Neuropeptide signaling and synaptic plasticity in the extended amygdala underlying alcohol use disorders and anxiety behaviors
- 2005 – 2010 **Ph.D. in Behavioral Neuroscience**
Department of Psychology & Neuroscience
Duke University, Durham, NC
Doctoral Thesis Advisor: Christina L. Williams, Ph.D.
 - Effects of estradiol during development and adulthood on spatial navigation learning and plasticity in underlying neural circuits
- 2001 – 2005 **B.A. in Psychology, minor in Mathematics**
Research Assistant, Department of Neurology
Yerkes National Primate Research Center
Emory University, Atlanta, GA
Undergraduate Research Advisor: Vallabh Das, Ph.D.
 - Effects of early life strabismus on visual behavior and ensemble activity in V1 and V5 visual cortex in adulthood

External Research Support

ACTIVE

- R01 AA027645 (Pleil) 09/10/2019 – 6/30/2024
NIH/NIAAA Role: PI
A critical role for rapid estrogen signaling in addiction and anxiety
The goals of this grant are to identify the signaling mechanism(s) by which estrogen regulates the function of a thalamo-limbic circuit that drives risky alcohol drinking behavior and anxiety, determine the functional effects on the circuit and behavioral consequences of this action, and characterize basal and behaviorally-induced estrogen synthesis at these synapses and peripheral sources to drive estrogen's effects.
- R00 AA023559 (Pleil) 05/01/2017– 04/30/2020
NIH/NIAAA Role: PI
The role of excitatory inputs to BNST CRF neurons in alcohol drinking behavior

The major goals of this grant are to characterize the excitatory synaptic inputs that drive the activity of CRF neurons in the bed nucleus of the stria terminalis and evaluate the consequences of repeated binge drinking on the function of this circuit and subsequent alcohol drinking and anxiety-related behaviors.

- NARSAD Young Investigator Award (Pleil) 01/15/2018 – 01/14/2020
Brain & Behavior Research Foundation Role: PI
A maladaptive synaptic switch driving alcohol abuse across neuropsychiatric diseases
The goal of this grant is to identify whether the glutamatergic projections from midline thalamus that support excessive alcohol consumption via positive reinforcement change in anhedonic mice to a negative reinforcement circuit, regardless of whether a depressive phenotype is elicited during the course of addiction or by chronic stress.
- R21 DA048635 (Pleil, Toth) 04/01/2019 – 03/31/2021
NIH/NIDA Role: Co-PI
The DNA methylation code governing the ensemble representation of morphine-context association
The goals of this grant are to identify shifts in the DNA methylation of genes ventral hippocampus neurons and synaptic and circuit plasticity underlying the association between the rewarding properties of morphine and the context in which it is experienced.
- R01 NS106056 (Toth) 09/30/2018 – 09/29/2023
NIH/NINDS Role: Co-I
DNA methylation based binary switches in coding experiences in the hippocampus
The goal of this grant is to evaluate how DNA methylation of bistable enhancers regulates gene expression to contribute to neuron allocation to coding experiences in the hippocampus.

RECENTLY COMPLETED

- Kellen Junior Faculty Fellowship (Pleil) 12/19/2016 – 12/18/2017
Stephen and Anna-Maria Kellen Foundation Role: PI
Rapid estrogen modulation of a limbic circuit for binge drinking and affective behavior
- K99 AA023559 (Pleil) 05/01/2015 – 04/30/2017
NIH/NIAAA Role: PI
The role of excitatory inputs to BNST CRF neurons in alcohol drinking behavior
Mentors: Drs. Thomas Kash & Garret Stuber (05/15 – 05/16), Dr. Conor Liston (06/16 – 04/17)

Selected Honors, Awards, & Positions

- 2019 Senior Investigator Travel Award, American College of Neuropsychopharmacology
- 2017 Young Investigator Award, Alcoholism and Stress conference, Volterra, Italy
NARSAD Young Investigator Award, Brain & Behavior Research Foundation
Early Career Investigator Showcase Award, NIDA-NIAA Frontiers in Addiction SfN Mini-Convention
Chair, Mentorship committee, Organization for the Study of Sex Differences
Member, NIH/NIAAA Special Emphasis Panel for AUD-PTSD RFA
- 2016 Anna-Maria and Stephen Kellen Foundation Junior Faculty Fellowship
Elected Council Member, Young Investigator seat, Organization for the Study of Sex Differences
Co-organizer & Speaker, Symposium, Research Society on Alcoholism meeting
- 2015 NIH-NIAAA K99/R00 Pathway to Independence Award
Elizabeth Young New Investigator Award, Organization for the Study of Sex Differences meeting
- 2014 Organizer & Chair, Symposium, Research Society on Alcoholism meeting
Outstanding Poster Award, Gordon Research Conference on Alcohol and the Nervous System
Junior Investigator Travel Award, Research Society on Alcoholism meeting
- 2013 President's Young Investigator Award, Int'l Society for Biomedical Research on Alcoholism meeting

Junior Investigator Travel Award, Research Society on Alcoholism meeting
Travel Award, International Society for Biomedical Research on Alcoholism meeting

- 2012 NIH-NIAAA Individual Postdoctoral F32 NRSA
- 2011 Travel award, Alcoholism and Stress meeting
- 2009 Annie Laurie Aiken fellowship in Neuroscience, Duke University

Publications

- Acosta-Ruiz, A., Gutzeit, V.A., Skelly, M.J., Meadows, S., Lee, J., Parekh, P., Orr, A.G., Liston, C., **Pleil, K.E.**, Broichhagen, J., & Levitz, J. Branched photoswitchable tethered ligands enable ultra-efficient optical control and detection of G protein-coupled receptors *in vivo*. *Neuron* (accepted).
- Pleil, K.E.** & Skelly, M.J. (2018). CRF modulation of central monoaminergic function: implications for sex differences in alcohol drinking and anxiety (Review). *Alcohol* 72, 33-47.
- Bath, K.G., Russo, S., **Pleil, K.E.**, Wohleb, E., Duman, R., & Radley, J.J. (2017). Circuit and synaptic mechanisms of repeated stress: a perspective from differing contexts, variability, and development (Review). *Neurobiology of Stress* 7,137-151.
- Rinker, J.A., Marshall, S.A., Mazzone, C.M., Lowery-Gionta, E.G., Gulati, V., **Pleil, K.E.**, Kash, T.L., Navarro, M., & Thiele, T.E. (2017). Extended amygdala to ventral tegmental area corticotropin-releasing factor circuit controls binge ethanol intake. *Biological Psychiatry* 81, 930-940.
- Radke, A.K., Jury, N.J., Kocharian, A., Marcinkiewcz, C.A., Lowery-Gionta, E.G., **Pleil, K.E.**, McElligott, Z.A., McKlveen, J.M., Kash, T.L., & Holmes, A. (2017). Chronic EtOH effects of putative measures of compulsive behavior in mice. *Addiction Biology* 22, 423-434.
- Hardaway, J.A., Jensen, J., Kim, M., Mazzone, C.M., Sugam, J.A., DiBerto, J.F., Lowery-Gionta, E.G., Hwa, L.S., **Pleil, K.E.**, Bulik, C.M., & Kash, T.L. (2016). Nociceptin receptor antagonist SB612111 decreases high fat diet binge eating. *Behavioral Brain Research* 307, 25-34.
- Pleil, K.E.**, Helms, C.M., Sobus, J., Daunais, J.B., Grant, K.A. & Kash, T.L. (2016). Effects of chronic alcohol consumption on neuronal function in the non-human primate BNST. *Addiction Biology* 21, 1151-1167.
- Li, C., Sugam, J.A., Lowery-Gionta, E.G., McElligott, Z.A., McCall, N.M., Lopez, A.J., McKlveen, J.M., **Pleil, K.E.**, & Kash, T.L. (2016). Mu opioid receptor modulation of dopamine neurons in the periaqueductal gray/dorsal raphe: a role in regulation of pain. *Neuropsychopharmacology* 41, 2122-32.
- Navarro, M., Olney, J.J., Burnham, N.W., Mazzone, C.M., Lowery-Gionta, E.G., **Pleil, K.E.**, Kash, T.L., & Thiele, T.E. (2015). Lateral hypothalamus GABAergic neurons modulate consummatory behaviors regardless of the caloric content of biological relevance of the consumed stimuli. *Neuropsychopharmacology* 41, 1505-12.
- Pleil, K.E.**, Rinker, J.A., Lowery-Gionta, E.G., Mazzone, C.M., McCall, N.M., Kendra, A.M., Olson, D.P., Lowell, B.B., Grant, K.A., Thiele, T.E., & Kash, T.L. (2015). NPY signaling inhibits extended amygdala CRF neurons to suppress binge alcohol drinking. *Nature Neuroscience* 18, 545-52.
- Nature News & Views Article: O'Connor, R.M. & Kenny, P.J. (2015). Neuroscience: Binge drinking and brain stress systems. *Nature* 520, 168-69.
- Science Signaling Editor's Choice Article: Ferrarelli, L.K. (2015). Binge drinking for stress relief. *Science Sig* 8, ec81.
- Faculty of 1000 recommended with special significance: <http://f1000.com/prime/725381777>.
- Selected international press coverage: The Telegraph UK | Wired Germany | NIH News press release | The Independent UK | AAAS EurekAlert! | UNC Health Care News | ABC Spain | Science Daily | The Times of India
- Pleil, K.E.**, Lowery-Gionta, E.G., Crowley, N. E., Li, C., Marcinkiewcz, C.A., Rose, J.H., McCall, N.M., Maldonado-Devincci, A.M., Morrow, A.L., Jones, S.R., & Kash, T.L. (2015). Effects of chronic ethanol exposure on neuronal function in the prefrontal cortex and extended amygdala. *Neuropharmacology* 99, 735-49.

- Vardy, E.*, Robinson, E.J.*, Li, C.*, Olsen, R., DiBerto, J.F., Giguere, P.M., Sassano, F.M., Huang, X., Zhu, H., Urban, D.J., White, K.L., Rittiner, J.E., Crowley, N.A., **Pleil, K.E.**, Mazzone, C.M., Mosier, P.D., Song, J., Kash, T.L., Malanga, C.J., Krashes, M.J., & Roth, B.L. (2015). A new DREADD facilitates the multiplexed chemogenetic interrogation of behavior. *Neuron* 86, 936-46.
- Kash, T.L., **Pleil, K.E.**, Marcinkiewicz, C.A., Mazzone, C.M., Crowley, N. E., Lowery-Gionta, E.G., Sugam, J.A., Hardaway, J.A., McElligott, Z.A. (2015). Neuropeptide regulation of signaling and behavior in the BNST. *Molecules and Cells* 38, doi: 10.14348/molcells.2015.2261.
- Zhu, H., **Pleil, K.E.**, Urban, D.J., Moy, S.S., Kash, T.L., & Roth, B.L. (2014). Selective and reversible inactivation of ventral hippocampal glutamatergic neurons disrupts consolidation of contextual fear memory. *Neuropsychopharmacology* 39, 1880-92.
- Masneuf, S.F.*, Lowery-Gionta, E.G.*, Colacicco, G., **Pleil, K.E.**, Li, C., Crowley, N.E., Stamatakis, A., Flynn, S., Holmes, A., Kash, T. (2014). Glutamatergic mechanisms associated with stress-induced amygdala excitability and anxiety-related behavior. *Neuropharmacology* 85, 190-7.
- McCall, N.M., Sprow, G.M., Delpire, E., Thiele, T.E., Kash, T.L., & **Pleil, K.E.*** (2013). Effects of sex and deletion of neuropeptide Y2 receptors from GABAergic neurons on affective and alcohol drinking behaviors in mice. *Frontiers in Integrative Neuroscience* 7, 100, doi: 10.3389/fnint.2013.00100.
* indicates corresponding author
- Jennings, J.H., Sparta, D.R., Stamatakis, A.M., Ung, R.L., **Pleil, K.E.**, Kash, T.L., & Stuber, G.D. (2013). Distinct extended amygdala circuits for divergent motivational states. *Nature* 496, 224-28.
- Holmes, A., Fitzgerald, P.J., MacPherson, K.P., DeBrouse, L., Colacicco, G., Flynn, S.M., Masneuf, S., **Pleil, K.E.**, Li, C., Marcinkiewicz, C.A., Kash, T.L., Gunduz-Cinar, O., & Camp, M. (2012). Chronic alcohol remodels prefrontal neurons and disrupts NMDAR-mediated fear extinction encoding. *Nature Neuroscience* 15, 1359-61.
- Pleil, K.E.**, Lopez, A., McCall, N., Jijon, A.M., Pena, J., & Kash, T.L. (2012). Chronic stress alters neuropeptide Y signaling in the bed nucleus of the stria terminalis in DBA/2J but not C57Bl/6J mice. *Neuropharmacology* 62, 1777-86.
- Lowery-Gionta, E.G., Navarro, M., Li, C., **Pleil, K.E.**, Rinker, J.A., Cox, B.R., Sprow, G.M., Kash, T.L., & Thiele, T.E. (2012). Corticotropin releasing factor signaling in the central amygdala is recruited during binge-like ethanol consumption in C57Bl/6J mice. *Journal of Neuroscience* 32, 3405-13.
- Li, C*. **Pleil, K.E.***, Stamatakis, A.M., Busan, S., Vong, L., Lowell, B.B., Stuber, G.D., & Kash, T.L. (2012). Presynaptic inhibition of gamma-aminobutyric acid release in the bed nucleus of the stria terminalis by kappa opioid receptor signaling. *Biological Psychiatry* 71, 725-32. * indicates co-first author
- Sparrow, A.M., Lowery, E.G., **Pleil, K.E.**, Li, C., Sprow, G.M., Cox, B.R., Rinker, J.A., Jijon, A.M., Pena, J., Navarro, M., Kash, T.L., & Thiele, T.E. (2012). Central neuropeptide Y modulates binge-like ethanol drinking in C57Bl/6J mice via Y1 and Y2 receptors. *Biological Psychiatry* 1, 1-13.
- Pleil, K.E.**, Cordes, S., Meck, W.H., & Williams, C.L. (2011). Rapid and acute effects of estrogen on time perception in male and female rats. *Frontiers in Integrative Neuroscience*. 5:63. doi: 10.3389/fnint.2011.00063.
- Pleil, K.E.**, Glenn, M.J., & Williams, C.L. (2011). Estradiol alters Fos-immunoreactivity in the hippocampus and dorsal striatum during place and response learning in middle-aged but not young adult female rats. *Endocrinology* 152, 946-56.
- Pleil, K.E.** & Williams, C.L. (2010). The development and stability of estrogen-modulated spatial navigation strategies in female rats. *Hormones and Behavior* 57, 360-7.
- Williams, C.L. & **Pleil, K.E.** (2008). Toy story: why do monkey and human males prefer trucks? Comment on "Sex differences in rhesus monkey toy preferences parallel those of children" by Hassett, Siebert and Wallen. *Hormones and Behavior* 54, 355-8.

Manuscripts in preparation

- Levine, O.L., Skelly, M.J., Miller, J., DiBerto, J., Kash, T.L., & **Pleil, K.E.** A thalamo-limbic circuit modulating excessive alcohol consumption. *In preparation.*
- Rivera, J.K, Skelly, M.J., & **Pleil, K.E.** Adolescent social isolation produces aberrant social behavior in adulthood. *In preparation.*
- Pleil, K.E.** & Kash, T.L. Divergent effects of neuropeptide Y on neuronal function in distinct populations of CRF neurons in the central amygdala. *In preparation.*
- Pleil, K.E.**, Daunais, J.B., Grant, K.A. & Kash, T.L. Sex-specific effects of excessive alcohol consumption on neuronal function in the non-human primate BNST. *In preparation.*
- Rinker, J.A., **Pleil, K.E.**, Kash, T.L., & Thiele, T.E. A mechanism in the central amygdala for NPY modulation of binge alcohol drinking. *In preparation.*

Selected Presentations

- Pleil, K.E.** (2019, August). Estrogen modulation of limbic synapses. Invited symposium talk, Amygdala Function in Emotion, Cognition, and Disease GRC, Easton, MA.
- Pleil, K.E.** (2018, May). Sex differences in limbic modulation of alcohol drinking and anxiety. Symposium talk, annual meeting for the Organization of Sex Differences, Atlanta, GA.
- Pleil, K.E.** (2018, March). Dissecting limbic circuits for addiction and anxiety. Invited talk, Progress in Neuroscience Seminar (PINS), Weill Cornell Medicine, New York, NY.
- Pleil, K.E.** (2017, November). Sex differences in limbic modulation of alcohol drinking and anxiety. Award talk in the Early Career Investigator Showcase, NIDA-NIAAA Frontiers in Addiction Research Mini-Convention, annual meeting for the Society for Neuroscience, Washington, D.C.
- Pleil, K.E.** (2017, October). Neuromodulation of stress circuits: Implications for neuropsychiatric disease. Invited Colloquium, Williams College 1960's Scholars, Williamstown, MA.
- Pleil, K.E.** (2017, June). Sex differences in a peptidergic circuit driving binge drinking and affective behavior. Symposium talk, annual meeting for the Research Society on Alcoholism, Denver, CO.
- Pleil, K.E.** (2017, May). A thalamo-limbic neuropeptide circuit driving binge drinking behavior. Young Investigator Award Symposium talk, Volterra Conference for Alcoholism and Stress, Volterra, Italy.
- Pleil, K.E.** (2016, November). Peptidergic mechanisms of addiction and mood disorders. Invited seminar, Department of Pharmacology Seminar Series, Weill Cornell Medicine.
- Pleil, K.E.** (2016, November). Neurophysiological assessment of chronic alcohol exposure. Invited lecture, Environmental Exposure Assessment seminar, School of Public Health, UNC.
- Pleil, K.E.** (2016, June). Modulation of binge alcohol drinking by a discrete thalamo-limbic circuit. Symposium talk, annual meeting for the Research Society on Alcoholism, New Orleans, LA.
- Pleil, K.E.** (2016, April). Stressing thalamo-limbic circuits with repeated binge drinking. Symposium talk, Neurobiology of Stress Workshop, Newport Beach, CA.
- Pleil, K.E.** (2015, April). Sex-specific effects of chronic alcohol consumption on limbic neuronal function in non-human primates. Symposium talk, New Investigator Award, annual meeting for the Organization for the Study of Sex Differences, Stanford, CA.
- Pleil, K.E.** (2015, January). NPY-CRF interactions in the amygdala regulate binge alcohol drinking. Panel talk, annual Winter Conference on Brain Research, Big Sky, MT.
- Pleil, K.E.**, Kendra, A.M., & Kash, T.L. (2014, November). The role of glutamatergic inputs to BNST CRF neurons in alcohol drinking behavior. Poster presentation, annual meeting for Society for Neurosci, Washington, D.C.

- Pleil, K.E.,** Helms, C.M., Sobus, J., Daunais, J.B., Grant, K.A. & Kash, T.L. (2014, September). Molecular epidemiological assessment of neuronal function in the BNST of non-human primates after chronic voluntary alcohol consumption. Poster presentation, Symposium on Data Integration from the Monkey Model of Alcohol Drinking, Portland, OR.
- Pleil, K.E.** (2014, June). NPY signaling inhibits extended amygdala CRF neurons to suppress binge alcohol drinking. Symposium talk, annual meeting for the Research Society on Alcoholism, Bellevue, WA.
- Pleil, K.E.,** Lowery-Gionta, E.G., Rinker, J.A., Kendra, A.M., McCall, N.M., Mazzone, C.M., Sprow, G., Grant, K.A., Thiele, T.E., & Kash, T.L. (2014, February). NPY signaling inhibits extended amygdala CRF neurons to suppress binge alcohol drinking. Poster presentation, GRC on Alcohol and the Nervous System, Galveston, TX.
- Pleil, K.E.** (2013, November). Neurophysiological assessment of chronic exposure to alcohol and stress. Invited lecture, Environmental Exposure Assessment seminar, School of Public Health, UNC.
- Pleil, K.E.** (2013, June). Dissecting the relationship between neuropeptide Y signaling and binge alcohol drinking. Paper talk, annual meeting for the Research Society on Alcoholism, Orlando, FL.
- Pleil, K.E.** (2013, March). Chronic binge ethanol drinking dysregulates neuropeptide Y signaling in the extended amygdala. Invited talk, Pharmacology Department retreat, UNC School of Medicine, Chapel Hill, NC.
- Pleil, K.E.** (2013, March). Dissecting the role of neuropeptide Y signaling in alcohol drinking behavior. Invited seminar, Bowles Center for Alcohol Studies Seminar Series, UNC School of Medicine, Chapel Hill, NC.
- Pleil, K.E.,** McCall, N.M., Grant, K.A., & Kash, T.L. (2012, September). Effects of chronic alcohol exposure on neuronal function in the bed nucleus of the stria terminalis. . Poster presentation, meeting of the International Society for Biomedical Research on Alcoholism, Sapporo, Japan.
- Pleil, K.E.,** Lowery-Gionta, E.G., Li, C., Lopez, A., McCall, N.M., Thiele, T.E., & Kash, T.L. (2012, June). Receptor-specific effects of binge-like ethanol drinking on NPY modulation of synaptic transmission in the bed nucleus of the stria terminalis. Poster presentation, RSA annual meeting, San Francisco, CA.
- Pleil, K.E.,** Jijon, A.M., & Kash, T.L. (2011, May). Stress-mediated plasticity of neuropeptide Y signaling in the extended amygdala. Poster presentation, Alcoholism and Stress: A Framework for Future Treatment Strategies meeting, Volterra, Italy.
- Pleil, K.E.,** Penner, M.R., Glenn, M.J., & Williams, C. L. (2009, October). Expression of the immediate-early genes *c-Fos* and *Arc* reveal distinct mechanisms in the hippocampus and striatum of female rats during place and response navigation. Poster presentation, annual meeting for the Society for Neuroscience, Chicago, IL.
- Pleil, K.E.,** Myers, L.L., & Williams, C. L. (2007, June). The development of estrogenic modulation of spatial navigation strategy in female rats. Poster presentation, annual meeting for the Society for Behavioral Neuroendocrinology, Pacific Grove, CA.
- Pleil, K.E.,** Cheng, R.K., Williams, C.L., & Meck, W.H. (2006, October). Neuroendocrine mechanisms and the differential effects of cocaine on interval timing in male and female rats. Poster presentation, annual meeting for the Society for Neuroscience, Atlanta, GA.
- Pleil, K.E.,** Cordes, S., Meck, W.H., & Williams, C.L. (2006, March). Sex differences in interval timing: possible neuroendocrine mechanisms. Poster presentation, annual meeting for the Comparative Cognition Society, Melbourne, FL.

Teaching Positions

2016 –

Weill Cornell Medicine:

Lecturer, Genes, Drugs, and Behavior graduate course

Molecular Neuropharmacology

Neuropeptides, Pain, and Drugs of Abuse

Lecturer, Essential Principles of Pharmacology and Drug Development graduate course

Faculty Instructor, Next-Generation Methods graduate course

Faculty Instructor, Frontiers in Biomedical Science MD/PhD course
Lecturer, Essential Principles of Medicine medical school course
Faculty Instructor, Brain and Behavior medical school course

2013 – 2016

University of North Carolina:

Guest lecturer, Environmental Exposure Assessment seminar

2006 – 2008

Duke University:

Instructional Assistant, Biological Basis of Behavior, PSY 91

Instructional Assistant, Fundamentals of Neuroscience, BIO 154/NBI 154

Instructional Assistant, Developmental Psychology, PSY 97

Instructional Assistant, Biological Basis of Behavior, PSY 91

Teaching Assistant, Hormones and Behavior seminar, PSY 150S

Mentoring and Outreach

2016 – 2018

Chair, Mentorship committee, Organization for the Study of Sex Differences

2010 – 2016

Postdoctoral mentor, undergraduate research assistants, technicians, and graduate students

2009 – 2010

Volunteer, The Science Lab at the Museum of Life and Science, Durham, NC

Graduate student mentor, Undergraduate Honors thesis student

2007, 2009

Graduate student director, Mechanisms of Behavior summer REU program

2009

Mentor, Mechanisms of Behavior summer REU program

2008 – 2010

Member, Department of Psychology & Neuroscience Colloquium committee

2008

Mentor, Mechanisms of Behavior summer REU program

2007 – 2008

Mentor, Undergraduate Honors Thesis student

2007

Graduate student director, Mechanisms of Behavior summer REU program

Mentor, Mechanisms of Behavior summer REU program

2006

Mentor, Duke University Vertical Integration Program

Workshop leader, Females Excelling More in Math, Engineering, and Science

2005 – 2006

Mentor, Undergraduate independent study student

Professional Affiliations

2017 –

American Society for Pharmacology and Experimental Therapeutics

2015 –

Organization for the Study of Sex Differences

2010 –

Research Society on Alcoholism

2008 –

Society for Behavioral Neuroendocrinology

2005 –

Society for Neuroscience