

**Matthew S. McMurray, PhD**

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 Psychology Building, Room 221  
 Oxford, OH 45056  
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 +1-513-529-2415

**EDUCATION**

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<b>Postdoctoral, Psychology, Behavioral Neuroscience Program</b>	<b>2015</b>
University of Illinois at Chicago, Chicago, IL	
<i>Advisor:</i> Dr. Jamie Roitman	
<b>PhD, Psychology, Behavioral Neuroscience Program</b>	<b>2011</b>
University of North Carolina, Chapel Hill, NC	
<i>Advisor:</i> Josephine Johns	
<b>MA, Psychology, Behavioral Neuroscience Program</b>	<b>2008</b>
University of North Carolina, Chapel Hill, NC	
<i>Advisor:</i> Josephine Johns	
<b>BA, Psychology</b>	<b>2003</b>
University of North Carolina, Chapel Hill, NC	

**PROFESSIONAL AND ACADEMIC POSITIONS**

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<b>Assistant Professor</b>	<b>2015-date</b>
Miami University, Department of Psychology, Oxford, OH	
<b>Postdoctoral Research Associate</b>	<b>2011-2015</b>
University of Illinois at Chicago, Department of Psychology, Chicago, IL	
<i>Advisor:</i> Dr. Jamie Roitman	
<b>Graduate Research Fellow (NIDA / NIAAA funded)</b>	<b>2005-2011</b>
University of North Carolina, Department of Psychology, Chapel Hill, NC	
University of North Carolina, Bowles Center for Alcohol Studies, Chapel Hill, NC	
<i>Advisor:</i> Dr. Josephine Johns	

**HONORS, AWARDS, AND FELLOWSHIPS**

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• Nominee, Outstanding Professor Award, Associated Student Government, Miami University	<b>2017</b>
• Junior Investigator Award, Research Society on Alcoholism, San Antonio, TX	<b>2015</b>
• AAAS/Science Program for Excellence in Science	<b>2014</b>
• Travel Award, National Postdoctoral Association Annual Meeting, St Louis, MO	<b>2014</b>
• Third Place, Postdoctoral Poster Competition, Chicago SfN	<b>2013</b>
• Junior Investigator Award, Research Society on Alcoholism, San Francisco, CA	<b>2012</b>
• NRSA Predoctoral Fellowship (NIDA 1F31DA026251)	<b>2009</b>
• Graduate Mentor Award, UNC Office of Undergraduate Research	<b>2009</b>
• Richard King Research Excellence Award, UNC Department of Psychology	<b>2009</b>

- Travel Award, International Behavioral Neuroscience Society, USVI **2008**
- Travel Award, Research Society on Alcoholism, Chicago, IL **2007**
- Small Animal Imaging Grant, UNC NDRC Neuroimaging Core **2007**
- NIDA Predoctoral Training Grant, UNC Department of Psychology **2005, 2007**
- Travel Award, NIAAA Trainee Workshop, Indianapolis, IN **2006**
- NIAAA Predoctoral Training Grant, UNC Bowles Center for Alcohol Studies **2006**

## **PEER REVIEWED MANUSCRIPTS**

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**Total Citations: 507 (Google Scholar)**

**h-index: 14**

<sup>U</sup> Undergraduate student co-author; <sup>G</sup> Graduate student co-author; IF = Journal Impact Factor (5 year)

### **Original Research Manuscripts in Peer-Reviewed Journals:**

- **McMurray MS**, Conway SM <sup>G</sup>, Roitman JD (2017) Brain stimulation reward supports more consistent and accurate rodent decision-making than food reward. *eNeuro* 4(2): e0015-17.2017. IF: --; Article Citations: 1
- Amodeo LR <sup>G</sup>, Jacobs-Brichford E <sup>G</sup>, **McMurray MS**, Roitman JD (2017) Acute and long-term effects of adolescent methylphenidate on decision-making and dopamine receptor mRNA expression in the orbitofrontal cortex. *Behavioural Brain Research* 324: 100-108. IF: 3.002; Article Citations: 0
- Amodeo LR <sup>G</sup>, **McMurray MS**, Roitman JD (2017) Orbitofrontal cortex reflects changes in response-outcome contingencies during probabilistic reversal learning. *Neuroscience* 345: 27-37. IF: 3.327; Article Citations: 5
- Ho EV <sup>U</sup>, Klenotich SJ, **McMurray MS**, Dulawa SC (2016) Activity-based anorexia alters the expression of BDNF transcripts in the mesocorticolimbic reward circuit. *PLoS ONE* 11(11): e0166756. IF: 2.806; Article Citations: 3
- **McMurray MS**, Amodeo LR <sup>G</sup>, Roitman JD (2016) Consequences of adolescent ethanol consumption on risk preference and orbitofrontal cortex encoding of reward. *Neuropsychopharmacology* 41: 1366–1375. IF: 6.399; Article Citations: 9
- Klenotich SJ <sup>G</sup>, Ho EV <sup>U</sup>, **McMurray MS**, Server CH, Dulawa SC (2015) Dopamine D2/3 receptor antagonism reduces activity-based anorexia. *Translational Psychiatry* 5: e613. IF: 5.620; Article Citations: 8
- **McMurray MS**, Oguz I, Rumpel AM, Paniagua B, Styner MA, Johns JM (2015) Effects of prenatal cocaine exposure on early postnatal rodent brain structure and diffusion properties. *Neurotoxicology and Teratology* 47: 80-88. IF: 2.762; Article Citations: 5
- Cox-Lippard ET <sup>G</sup>, Jarett TM <sup>G</sup>, **McMurray MS**, Zeskind PS, Garber KA, Zoghby CR <sup>U</sup>, Glaze K, Tate W, Johns JM (2015) Early postpartum pup preference is altered by gestational cocaine treatment: associations with infant cues and oxytocin expression in the MPOA. *Behavioral Brain Research* 278: 176–185. IF: 3.002; Article Citations: 11
- Zeskind PS, **McMurray MS**, Cox-Lippard ET <sup>G</sup>, Grewen KM, Garber KA, Johns JM (2014) Translational Effects of Prenatal Cocaine Exposure on Human Infant Cries and Rat Pup Vocalizations. *PLoS ONE* 9(10): e110349. IF: 2.806; Article Citations: 5
- **McMurray MS**, Amodeo LR <sup>G</sup>, Roitman JD (2014) Effects of voluntary alcohol intake on risk preference and behavioral flexibility during rat adolescence. *PLoS ONE* 9(7): e100697. IF: 2.806; Article Citations: 14

- **McMurray MS**, Zeskind PS, Meiners SM<sup>U</sup>, Garber KA, Tien H, Johns JM (2013) Effect of prenatal cocaine on early postnatal thermoregulation and ultrasonic vocalization production. *Frontiers in Psychology* 4: 882. IF: 2.321; Article Citations: 5
- Rumble A, **McMurray M**, Johns J, Lauder J, Makam P<sup>U</sup>, Radcliffe M<sup>U</sup>, Oguz I (2013) 3-Dimensional Diffusion Tensor Imaging (DTI) Atlas of the Rat Brain. *PLoS ONE* 8(7): e67334. IF: 2.806; Article Citations: 20
- **McMurray MS**, Hubbard DK<sup>G</sup> (2013) A novel device for the calibration of sonic and ultrasonic recording transducers. *Journal of Neuroscience Methods* 217(1-2): 39-43. IF: 2.554; Article Citations: 2
- Klenotich SJ<sup>G</sup>, Seiglie MP<sup>U</sup>, **McMurray MS**, Roitman JD, Grange D, Dugad P, Dulawa SC (2012) Olanzapine but not fluoxetine treatment increases survival in activity-based anorexia in mice. *Neuropsychopharmacology* 37(7): 1620-31. IF: 6.399; Article Citations: 23
- Cai Y, **McMurray MS**, Lin W, Oguz I, Yuan H, Johns JM, An H (2011) Use of high resolution 3D Diffusion tensor imaging (DTI) to study brain development in neonatal rats. *Frontiers in Psychiatry* 2: 54. IF: 3.532; Article Citations: 9
- Cox ET<sup>G</sup>, Jarrett TM<sup>G</sup>, **McMurray MS**, Greenhill K, Hofler VA, Williams SK<sup>G</sup>, Joyner PW, Middleton CL, Walker CH, Johns JM (2011) Combined norepinephrine / serotonergic reuptake inhibition: effects on maternal behavior aggression and oxytocin in the rat. *Frontiers in Psychiatry* 2: 34. IF: 3.532; Article Citations: 5
- Oguz I, Lee J, Budin F, Rumble A, **McMurray M**, Ehlers C, Crews F, Johns J, Styner M (2011) Automatic skull-stripping of rat MRI/DTI scans and atlas building. *Proceedings of the Society of Photo-Optical Instrumentation Engineers* 7962: 7962251-7962257. IF: 0.37; Article Citations: 18
- Johns JM, **McMurray MS**, Joyner PW, Jarrett TM<sup>G</sup>, Williams SK<sup>G</sup>, Cox ET<sup>G</sup>, Black MA, Middleton CL, Walker CH (2010) Effects of chronic and intermittent cocaine treatment on dominance aggression and oxytocin levels in post-lactational rats. *Psychopharmacology (Berl)* 211(2): 175-85. IF: 2.43; Article Citations: 17
- Williams SK<sup>G</sup>, Cox ET<sup>G</sup>, **McMurray MS**, Fay EE<sup>U</sup>, Jarrett TM<sup>U</sup>, Walker CH, Overstreet DH, Johns JM (2009) Simultaneous prenatal ethanol and nicotine exposure affect ethanol consumption, ethanol preference, and oxytocin receptor binding in adolescent and adult rats. *Neurotoxicology and Teratology* 31(5): 291-302. IF: 2.762; Article Citations: 15
- **McMurray MS**, Williams SK<sup>G</sup>, Jarrett TM<sup>U</sup>, Cox ET<sup>G</sup>, Fay EE<sup>U</sup>, Overstreet DH, Walker CH, Johns JM (2008) Gestational ethanol and nicotine exposure: effects on maternal behavior, oxytocin, and offspring ethanol intake in the rat. *Neurotoxicology and Teratology* 30(6): 475-86. IF: 2.762; Article Citations: 29
- **McMurray MS**, Joyner PW, Middleton CW, Jarrett TM<sup>U</sup>, Elliott DL, Black MA, Hofler VE, Walker CH, Johns JM (2008) Intergenerational effects of cocaine on maternal aggressive behavior and brain oxytocin in rat dams. *Stress* 11(5): 398-411. IF: 3.252; Article Citations: 37
- **McMurray MS**, Cox ET<sup>G</sup>, Jarrett TM<sup>U</sup>, Williams SK<sup>G</sup>, Walker CH, Johns JM (2008) Impact of gestational cocaine treatment or prenatal cocaine exposure on early postpartum oxytocin mRNA levels and receptor binding in the rat. *Neuropeptides* 42(5-6): 641-52. IF: 2.486; Article Citations: 13
- Johns JM, **McMurray MS**, Hofler VE, Jarrett TM<sup>U</sup>, Middleton CL, Elliott DL, Mirza R<sup>U</sup>, Haslup A, Elliott JC, Walker CH (2007) Cocaine disrupts pup-induced maternal behavior in juvenile and adult rats. *Neurotoxicology and Teratology* 29(6): 634-641. IF: 2.762; Article Citations: 8
- Jarrett TM<sup>U</sup>, **McMurray MS**, Walker CH, Johns JM (2006) Cocaine treatment alters oxytocin receptor binding but not mRNA production in postpartum rat dams. *Neuropeptides* 40(3): 161-167. IF: 2.486; Article Citations: 25

- Gordon CJ, Herr DW, Gennings C, Graff JE, **McMurray M**, Stork L, Coffey T, Hamm A, Mack CM (2006) Thermoregulatory response to an organophosphate and carbamate insecticide mixture: testing the assumption of dose-additivity. *Toxicology* 217: 1-13. IF: 3.621; Article Citations: 28
- Johns JM, Joyner PW, **McMurray MS**, Elliot DA, Hofler VE, Knupp K<sup>U</sup>, Greenhill KW, Walker CH (2005) The effects of dopaminergic/serotonergic reuptake inhibition on maternal behavior, maternal aggression, and oxytocin in the rat. *Pharmacology Biochemistry and Behavior* 81(4): 769-785. IF: 2.781; Article Citations: 46
- Johns JM, Elliott DL, Hofler VE, Joyner PW, **McMurray MS**, Jarrett TM<sup>U</sup>, Haslup AM, Middleton CL, Elliott JC, Walker CH (2005) Cocaine treatment and prenatal environment interact to disrupt intergenerational maternal behavior in rats. *Behavioral Neuroscience* 119(6): 1605-1618. IF: 3.002; Article Citations: 48
- Johns JM, Lubin DA, Walker CH, Joyner PW, Middleton CL, Hofler VE, **McMurray MS** (2004) Gestational treatment with cocaine and fluoxetine alters oxytocin receptor number and binding affinity in lactating rat dams. *International Journal of Developmental Neuroscience* 22: 321-328. IF: 2.025; Article Citations: 31

#### Review Manuscripts and Book Chapters:

- **McMurray MS**, Johns JM (2018). Effects of prenatal cocaine on maternal care and ultrasonic vocalizations of rat offspring. In: Stefan M. Brudzynski, editor: *Handbook of Ultrasonic Vocalization, Vol 25*, HBBN, UK: Academic Press, pp. 457-466. IF: --; Article Citations: 0
- Oguz I\*, **McMurray MS\***, Styner MA, Johns JM (2011) The translational role of diffusion tensor image analysis in animal models of developmental pathologies. *Developmental Neuroscience* 34(1): 5-19. \*These authors contributed equally to the manuscript. IF: 3.590; Article Citations: 7
- Zeskind PS, **McMurray MS**, Garber KS, Neuspiel JM, Cox ET<sup>G</sup>, Grewen KM, Mayes LC, Johns JM (2011) Development of Translational Methods in Spectral Analysis of Human Infant Crying and Rat Pup Ultrasonic Vocalizations for Early Neurobehavioral Assessment. *Frontiers in Psychiatry* 2(56). IF: 3.532; Article Citations: 32
- Gerig G, Oguz I, Gouttard S, Lee J, An H, Lin W, **McMurray MS**, Grewen K, Johns JM, Styner MA (2011) Synergy of image analysis for animal and human neuroimaging supports translational research on drug abuse. *Frontiers in Psychiatry* 2(53). IF: 3.532; Article Citations: 5

#### INVITED ORAL PRESENTATIONS

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- **McMurray MS** (2018) Longitudinal effects of adolescent alcohol consumption. *California State University at San Bernardino, Neuroscience Colloquium*: San Bernardino, CA.
- **McMurray MS** (2017) Environmental and social modulation of impulsivity and drug intake. *Miami University, Social Psychology Research Interest Group*: Oxford, OH.
- **McMurray MS** (2017) Long-lasting consequences of adolescent alcohol on decision-making and cortical function. *University of Cincinnati, Neuroscience Seminar Series*: Cincinnati, OH.
- **McMurray MS** (2016) Adolescent alcohol consumption alters decision-making and orbitofrontal cortex function. *University of New Mexico, Neuroscience Seminar Series*: Albuquerque, NM.
- **McMurray MS** (2016) Adolescent alcohol consumption alters adult risk preference and cortical function. *Ohio Miami Valley Chapter of the Society for Neuroscience*: Cincinnati, OH.
- **McMurray MS** (2015) Neurocognitive effects of voluntary adolescent alcohol use. *Research Society on Alcoholism*: San Antonio, TX.
- **McMurray MS** (2015) Adolescent alcohol consumption alters adult risk preference and cortical function. *Chicago Brain Bee*: Chicago, IL.

- **McMurray MS**, Oguz I, Rumple AM, Makam PR, Radcliffe MJ, Hong Y, Cai Y, Hongyu A, Lauder JM, Styner M, Johns JM (2012) Intergenerational effects of gestational cocaine exposure on rodent brain structure and diffusion properties. *Society for Neuroscience*: New Orleans, LA.
- **McMurray MS** (2012) Small animal diffusion tensor imaging. *UIC Institute for Juvenile Research*: Chicago, IL.
- **McMurray MS** (2012) In vivo electrophysiology using the Omniplex system. *Plexon Technical Workshop*: Dallas, TX.
- **McMurray MS** (2010) Prenatal cocaine disrupts the mother-infant dyad. *UNC Department of Psychology Seminar Series*: Chapel Hill, NC.
- **McMurray MS** (2008) In utero cocaine exposure alters pup-produced stimuli relevant to maternal care. *International Behavioral Neuroscience Society*: St. Thomas, USVI.
- **McMurray MS** (2007) Maternal behavior in an animal model of polydrug Use. *NIAAA Trainee Workshop*: Indianapolis, IN.

## **POSTER PRESENTATIONS (since 2015)**

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<sup>U</sup> Undergraduate student co-author; <sup>G</sup> Graduate student co-author

- Tapp DN <sup>G</sup>, **McMurray MS** (2017) Serotonin selectively modulates reversal learning in the OFC/BLA circuit. *Society for Neuroscience*: Washington, DC.
- Tapp DN, **McMurray MS** (2017) Serotonin within the BLA and the OFC modulates reversal learning. *Miami University Graduate Research Forum*: Oxford, OH.
- Thompson SN <sup>G</sup>, **McMurray MS** (2017) Trashcans for rats: A rodent model of caffeine and alcohol co-consumption. *Miami University Graduate Research Forum*: Oxford, OH.
- Penhos E <sup>U</sup>, Heller D <sup>U</sup>, Tapp DN <sup>G</sup>, **McMurray MS** (2017) Influence of reward type on impulsive decision-making. *Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience*: Delaware, OH.
- Zerkle H <sup>U</sup>, Tapp DN <sup>G</sup>, **McMurray MS** (2017) Playing the odds: examining decision-making differences under restricted resources. *Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience*: Delaware, OH.
- Sanders B <sup>U</sup>, Singstock M <sup>U</sup>, Tapp DN <sup>G</sup>, **McMurray MS** (2017) Oxytocin as a potential treatment for gambling disorders. *Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience*: Delaware, OH.
- Rodriguez K <sup>U</sup>, Tapp DN <sup>G</sup>, **McMurray MS** (2017) Social motivation of adolescent binge drinking. *Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience*: Delaware, OH.
- Roan D <sup>U</sup>, Tapp DN <sup>G</sup>, **McMurray MS** (2017) Oxytocin and its influence on gambling behavior. *National Conference on Undergraduate Research*: Memphis, TN.
- Tapp DN <sup>G</sup>, **McMurray MS** (2016) Oxytocin reduces impulsive decision-making: A potential new therapeutic for Gambling Disorders. *Miami University Graduate Research Forum*: Oxford, OH.
- Jacobs-Brichford E <sup>G</sup>, Amodeo LR <sup>G</sup>, **McMurray MS**, Roitman JD (2016) Adolescent cannabinoid exposure impairs risky decision-making and alters mPFC firing patterns in adult rats. *Society for Neuroscience*: San Diego, CA
- Conway SM <sup>G</sup>, **McMurray MS**, Garris PH, Chartoff EH, Wheeler RA, Roitman JD, Roitman MF (2015) Chemogenetic inhibition of mesolimbic dopamine reveals excitability-dependent amphetamine action for behavior. *Society for Neuroscience*: Chicago, IL.
- Jacobs-Brichford E <sup>G</sup>, Amodeo LR <sup>G</sup>, **McMurray MS**, Roitman JD (2015) Effects of adolescent cannabinoid exposure on risk based decision-making in rats. *Society for Neuroscience*: Chicago, IL.

- Roitman JD, Jacobs-Brichford E, **McMurray MS**, Short C, Amodeo LR (2015) Effects of methylphenidate on prefrontal cortex and decision-making throughout development. *Society for Neuroscience*: Chicago, IL.
- Short CR, **McMurray MS**, Roitman JD (2015) Biomolecular markers of impulsivity following adolescent alcohol-induced changes to the orbitofrontal cortex. *Society for Neuroscience*: Chicago, IL.

## **STUDENT MENTORSHIP**

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### **Thesis Advisor:**

- Danielle Tapp, Department of Psychology, Miami University 2016-date
- Shannon Thompson, Department of Psychology, Miami University 2017-date

### **Thesis Committee Member:**

- Elizabeth Sneddon, Department of Psychology, Miami University 2018-date
- Samantha Corwin, Graduate Program in Neuroscience, University of Illinois at Chicago 2017-date
- Max Teaford, Department of Psychology, Miami University 2017-date
- James Lichter, Department of Biology, Miami University 2017-date
- Kristen Krolick, Department of Biology, Miami University 2016-date
- Daniel Kochli, Department of Psychology, Miami University 2016-2017

### **Undergraduate Honors Advisor:**

- Amber Simmons, Department of Psychology, Miami University 2017-date

### **Undergraduate Honors Committee Member:**

- Cara Demyan, Department of Psychology, Miami University 2016-date

### **Distinguished Undergraduate Teaching Fellow Mentor:**

- Kelsey Straub, PSY251: Intro to Biopsych, Miami University 2016-date

### **Undergraduate Research Supervisor:**

- Stephen George, Miami University 2018-date
- Tyler Miles, Miami University 2018-date
- Blake Burrel, Miami University 2017-date
- Kendall Clarke, Miami University 2017-date
- Marquis Barbel, Miami University 2017-date
- Jaylen Perkins, Miami University 2017-date
- Mitchell Singstock, Miami University 2017-date
- Bryson Sanders, Miami University 2017-date
- Katherine Rodriguez, Miami University 2016-date
- Hannah Zerkle, Miami University 2015-date
- Elena Penhos, Miami University 2015-date
- Brittany Nordhaus, Miami University 2015-date
- Julia Mordarski, Miami University 2017-2018
- Harry Savarese, Miami University 2017
- Daniel Heller, Miami University 2017
- Danyelle Roan, Miami University, LSAMP 2016-2017
- Samantha Miller, Miami University 2016
- Allie Gartner, Miami University 2015-2017

**Student Accomplishments:**

- Undergraduate Summer Scholars Awards
  - Katherine Rodriguez 2017
  - Mitchell Singstock 2018
  - Margot Duffy 2018
- Undergraduate Research Awards
  - Katherine Rodriguez and Amber Simmons (joint award) 2018
  - Brittany Nordhaus and Bryson Sanders (joint award) 2018
  - Jaylen Perkins 2018
  - Mitchell Singstock 2018
- Other Student Awards
  - Danielle Tapp – Top 3 Poster, Graduate Research Forum, Miami University 2016

**SUPPORT**

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**Current:**

- Balance of reward and aversion during opiate addiction and withdrawal  
College of Arts and Sciences, Miami University  
\$15,000 (total) 2018 – 2019 Role: *Co-Primary Investigator*
- Startup Funds  
Department of Psychology, Miami University  
2015 – 2019 Role: *Primary Investigator*

**Completed:**

- Development of novel analytical tools for the study of neural network connectivity in awake behaving rats  
Committee on Faculty Research, Miami University  
\$6,200 (total) 1/2017 – 5/2017 Role: *Primary Investigator*
- Improving Neuroscience Capstone Preparation through Participation in a Laboratory Class  
Burckhardt Grant, Department of Psychology, Miami University  
\$3,000 (total) 1/2017 – 5/2017 Role: *Primary Investigator*
- Minor Teaching Project Grant  
Miami University, Center for Teaching Excellence  
\$300 (total) 1/2016 – 5/2016 Role: *Primary Investigator*
- Summer Research Grant  
Miami University, College of Arts and Sciences  
\$5,000 (total) 6/2016 – 8/2016 Role: *Primary Investigator*
- Prenatal Cocaine Exposure: Neurological and Behavioral Effects in Rats  
F31 DA026251: National Institute on Drug Abuse  
\$60,000 (total) 9/2009 - 9/2011 Role: *Primary Investigator*
- Effects of in Utero Cocaine Exposure on Rat Juvenile Brain Structure  
University of North Carolina Neurodevelopmental Disorders Research Center  
\$2,000 (total) 9/2006 - 9/2007 Role: *Primary Investigator*

- Training on Research in Drug Abuse  
T32 DA007244: National Institute on Drug Abuse  
9/2007- 9/2008    Role: *Predoctoral Fellow*
- Molecular and Cellular Alcohol Research Training  
T32 AA007573: National Institute on Alcohol Abuse and Alcoholism  
9/2006 - 9/2007    Role: *Predoctoral Fellow*
- Training on Research in Drug Abuse  
T32 DA007244: National Institute on Drug Abuse  
9/2005- 9/2006    Role: *Predoctoral Fellow*

## TEACHING

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<b>Advanced Biological Basis of Behavior</b> (PSY456/556), Miami University Instructor of Record <i>Number Enrolled: 24</i>	<b>Spring 2016</b>
<b>Advanced Biopsychology</b> (PSY351), Miami University Instructor of Record <i>Number Enrolled: 14-16 per semester</i> Supported by Burckhardt Award, Department of Psychology, Miami University	<b>Fall 2016 – Fall 2017</b>
<b>BCD Brownbag</b> (PSY710Z), Miami University Instructor of Record <i>Number Enrolled: 13</i>	<b>Fall 2016</b>
<b>Senior Capstone in Addiction Neuroscience</b> (PSY410), Miami University Instructor of Record <i>Number Enrolled: 22</i>	<b>Spring 2016</b>
<b>Introduction to Biological Psychology</b> (PSY251), Miami University Instructor of Record <i>Number Enrolled: ~85 per semester</i> Supported by Minor Teaching Grant, Center for Teaching Excellence, Miami University	<b>Fall 2015, Spring 2016</b>
<b>Learning</b> (PSYC222), Department of Psychology, UNC Instructor of Record <i>Number Enrolled: 33</i>	<b>Spring 2009</b>
<b>Learning</b> (PSYC222), Department of Psychology, UNC Teaching Assistant <i>Number Enrolled: 120</i>	<b>Fall 2008</b>

## PROFESSIONAL WORKSHOPS ATTENDED

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<b>New Faculty Teaching Enhancement Program</b> Miami University, Oxford, OH	<b>2016</b>
<b>New Faculty Research Enhancement Program</b> Miami University, Oxford, OH	<b>2016</b>
<b>Scientific Teaching: The Cutting Edge of STEM pedagogy</b>	<b>2014</b>



University of Chicago, Chicago, IL

<b>Mentoring Your Advisee: A Workshop for Postdocs and PhD Students</b>	<b>2014</b>
Rush University, Chicago, IL	
<b>Plexon Technical Workshop</b>	<b>2011, 2012</b>
Plexon Inc, Dallas, TX	
<b>Applications of Unbiased Stereology to Neural Systems</b>	<b>2007</b>
Stereology Resource Center, Gainesville, FL	
<b>NIAAA Trainee Workshop</b>	<b>2006</b>
Indiana University-Purdue University at Indianapolis, Indianapolis, IA	
<b>Teaching Practicum</b>	<b>2006</b>
University of North Carolina, Chapel Hill, NC	

## **SERVICE**

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<b>Miami Instrumentation Lab Advisory Committee</b>	<b>2016-date</b>
<b>Miami Alumni Mentorship Committee</b>	<b>2017-date</b>
<b>Undergraduate Curriculum Committee</b> , Department of Psychology, Miami University	<b>2017-date</b>
<b>Faculty Advisor</b> , Nu Rho Psi, the National Honor's Society for Neuroscience	<b>2015-date</b>
<b>Ad-hoc Reviewer</b>	
Current Psychopharmacology	<b>2014-date</b>
PLOS ONE	<b>2014-date</b>
Addiction	<b>2015-date</b>
Drug and Alcohol Dependence	<b>2015-date</b>
Neurotoxicology and Teratology	<b>2016-date</b>
Learning and Memory	<b>2016-date</b>
Neuropharmacology	<b>2016-date</b>

## **PROFESSIONAL AFFILIATIONS**

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- Society for Neuroscience
- Ohio Miami Valley Chapter of the Society for Neuroscience
- Research Society on Alcoholism
- American Association for the Advancement of Science
- Nu Rho Psi (National Honor Society in Neuroscience)