

# Caitlin A. Orsini, Ph.D.

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Waggoner Center for Alcohol and Addiction Research  
University of Texas at Austin  
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## EDUCATION

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**Ph.D.**, Biopsychology, University of Michigan, Ann Arbor, MI (2012)

**M.S.**, Biopsychology, University of Michigan, Ann Arbor, MI (2009)

**B.S.**, Psychology (summa cum laude, valedictorian), Washington College, Chestertown, MD (2007)

- *Behavioral Neuroscience Concentration*

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## ACADEMIC APPOINTMENTS

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**Assistant Professor**, Department of Psychology, Waggoner Center for Alcohol and Addiction Research, University of Texas at Austin (2019-Pres)

**Post-doctoral Fellow**, McKnight Brain Institute, Dept. of Psychiatry, University of Florida (2012-2019)

**Graduate Student Research Assistant**, Biopsychology, University of Michigan (2007-2012)

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## GRANTS AND FELLOWSHIPS

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**Pathway to Independence Award** (R00DA041493-3, NIDA, 2019-22; **\$744,605**)

- “Neural circuits and mechanisms underlying maladaptive risk-taking following cocaine self-administration”

**Rising Science and Technology Acquisition and Retention (STARs) Award** (University of Texas at Austin; **\$300,000**)

**Pathway to Independence Award** (K99DA041493-01A1, NIDA, 2017-19; **\$231,612**)

- “Neural circuits and mechanisms underlying maladaptive risk-taking following cocaine self-administration” (*Impact score of 10*)

**Thomas H. Maren Junior Investigator Postdoctoral Fellowship** (2015-17; **\$50,000**)

- “Risk-taking and the nucleus accumbens: neural circuitry and the impact of cocaine”

**McKnight Brain Institute Fellowship** (2014-16; **\$10,000**)

- “Risk-taking and the amygdala: neural circuitry and impact of chronic cocaine”

**National Center for Responsible Gaming** (2013-14; **\$28,750**)

- “The effects of PTSD on risky decision-making”

**Ruth L. Kirchstein National Research Service Award** (F31-MH-091822, NIMH, 2010-12; **\$63,800**)

- “Interactions between the ventral hippocampus and amygdala during renewal of fear.”

**American Psychological Association Dissertation Award** (**\$1,000**)

- Awarded on November 18<sup>th</sup>, 2010 from the American Psychological Association.

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**PEER REVIEWED PUBLICATIONS**


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25. **Orsini, C.A.**, Blaes, S.L., Dragone, R.J., Finner, A., Bizon, J.L., Setlow, B. (In press). Distinct relationships between risk taking and cocaine self-administration in under short- and long-access conditions. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*.
24. Setlow, B., Blaes, S.L., Burns, M.R., Dragone, R.J., **Orsini, C.A.** (In press). Using rodent models to understand interactions between gambling and substance use. *Current Opinion in Behavioral Sciences*.
23. Hernandez, C.M., **Orsini, C.A.**, Labiste, C.C., Wheeler, A., Ten Eyck, T.W., Bruner, M.M., Harden, S., Frazier, C.J., Setlow, B., Bizon, J.L. (2019). Optogenetic inactivation of the basolateral amygdala during distinct task epochs young and aged rats performing a delay discounting task. *eLife*, 8:e46174.
22. Blaes, S.L., **Orsini, C.A.**, Bruner, M.M., Wall, S.C., Stubbs, T., Ferguson, S.N., Holik, H., Febo, M., Bruijnzeel, A.W., Bizon, J.L., Setlow, B. (2019). Enhancing effects of acute exposure to cannabis smoke on working memory performance. *Neurobiology of Learning and Memory*, 157:151-162.
21. **Orsini, C.A.**, Hernandez, C.M., Bizon, J.L., Setlow, B. (2019). Deconstructing value-based decision making via temporally-selective manipulation of neural activity: insights from rodent models. *Cognitive, Affective and Behavioral Neuroscience*.
20. Blaes, S.L., **Orsini, C.A.\***, Mitchell, M.R., Spurrell, M.S., Betzhold, S., Vera, K., Bizon, J.L., Setlow, B. (2018) Monoaminergic modulation of decision making under risk of punishment in a rat model. *Behavioral Pharmacology*. 29:745-761. PMID: PMC6291248. \*indicates co-first author.
19. **Orsini, C.A.**, Colon-Perez, L.M., Heshmati, S.C., Setlow, B., Febo, M (2018). Functional connectivity of chronic cocaine use reveals progressive neuroadaptations in neocortical, striatal and limbic networks. *eNeuro*, PMID: PMC6071197.
18. **Orsini, C.A.**, Heshmati, S.C., Garman, T.S., Bizon, J.L., Setlow, B (2018). Contributions of medial prefrontal cortex to decision making involving risk of punishment. *Neuropharmacology*, 139:205-216. PMID: PMC6108435.
17. Deng, J.V., **Orsini, C.A.**, Shimp, K.G., Bizon, J.L., Setlow, B. (2018). MeCP2 expression in a rat model of risky decision making. *Neuroscience*, 369:212-221. PMID: PMC5766376.
16. **Orsini, C.A.**, Hernandez, C., Singhal, S., Kelly, K.B., Frazier, C.J., Bizon, J.L., Setlow, B. (2017). Optogenetic inhibition reveals distinct roles for basolateral amygdala activity at discrete timepoints during risky decision making. *The Journal of Neuroscience*, 48:11537-11548. PMID: PMC5707761.
15. Hernandez, C.M., Vetere, L., **Orsini, C.A.**, McQuail, J.M., Burke, S., Mauer, D., Setlow, B., Bizon, J.L. (2017). Relationships between intertemporal choice and prefrontal cortical-mediated cognitive deficits in aged rats. *Neurobiology of Aging*, 60:141-152. PMID: PMC5669385.
14. **Orsini, C.A.**, Mitchell, M.R., Heshmati, S.C., Spurrell, M. Bizon, J.B., Setlow, B. (2017). Effects of nucleus accumbens amphetamine administration on performance in a delay discounting task. *Behavioural Brain Research*, 321:130-136, PMID: PMC5272779.
13. **Orsini, C.A.**, Setlow B. (2017). Sex differences in animal models of decision making. *Journal of Neuroscience Research*, 95:260-269, PMID: PMC5120608.
12. **Orsini, C.A.**, Setlow, B., DeJesus, M., Galaviz, S., Loesch, K., Sacchetti, J.C., Ioerger, T., Wallis, D. (2016). Lphn3 null mouse phenotyping and transcriptomics reveal altered temporally dynamic

neuron development and behavior associated with ADHD and addiction. *Molecular Genetics and Genomic Medicine*, 4:322-343, PMID: PMC4867566.

11. **Orsini, C.A.**, Willis, M., Gilbert, R.J., Bizon, J.L., Setlow, B. (2016). Sex differences in a rat model of risky decision making. *Behavioral Neuroscience*, 130:50-61, PMID: PMC4738105.
10. **Orsini, C.A.**, Moorman, D., Young, J., Setlow, B., Floresco, S.B. (2015). Neural mechanisms regulating different forms of risk-related decision-making: Insights from animal models. *Neuroscience and Biobehavioral Reviews*, 58:147-167, PMID: 26072028.
9. **Orsini, C.A.**, Trotta, R.T., Bizon, J.L. Setlow, B. (2015). Dissociable roles for the basolateral amygdala and orbitofrontal cortex in decision-making under risk of punishment. *Journal of Neuroscience*, 35:1368-1379, PMID: PMC4308589.
8. **Orsini, C.A.**, Ginton, G., Shimp, K.G., Avena, N.M, Gold, M.S., Setlow, B. (2014). The effects of chronic amphetamine exposure on consummatory behavior during withdrawal. *Appetite*, 78:76-80, PMID: PMC4041868.
7. **Orsini, C.A.**, Yan, C., Maren, S. (2013). Ensemble coding of context-dependent fear memory in the amygdala. *Frontiers in Behavioral Neuroscience*, 7:1-8, PMID: PMC3861741.
6. **Orsini, C.A.** & Maren, S. (2012). Neural and cellular mechanisms of fear and extinction memory formation. *Neuroscience and Biobehavioral Reviews*, 36:1773-1802, PMID: PMC3345303.
5. **Orsini, C.A.** & Maren, S. (2011). Hippocampal and prefrontal projections to the basal amygdala mediate contextual regulation of fear after extinction. *Journal of Neuroscience*, 23, p. 17269-17277, PMID: 3241946.
4. Rabinak, C.A., **Orsini, C.A.**, Zimmerman, J.M. & Maren, S. (2009). The amygdala is not necessary for unconditioned stimulus inflation after Pavlovian fear conditioning in rats. *Learning & Memory*, 16:645-654, PMID: PMC2769164.
3. Leighton, J., Bird, G., **Orsini, C.A.** & Heyes, C. (2009). Social attitudes modulate automatic imitation. *Journal of Experimental Social Psychology*, 46:905-910.
2. **Orsini, C.A.** & Maren, S. (2009). Glutamate receptors in the medial geniculate nucleus are necessary for expression and extinction of conditioned fear in rats. *Neurobiology of Learning and Memory*, 92:581–589, PMID: PMC2745571.
1. Chang, C., Knapska, E., **Orsini, C.A.**, Rabinak, C., Zimmerman, J. & Maren, S. (2009). Fear extinction in rodents. *Current Protocols*, Chapter 8:Unit8.23, PMID: PMC2756523.

### **RESEARCH COMMENTARIES**

- Badrinarayan, A., Prater, K.E. & **Orsini, C.A.** (2012). The role of the central amygdala in selecting circuits and responses. *Journal of Neuroscience*, 32:8431-8433, PMID: PMC3457702.
- Rabinak, C.A., Zimmerman, J.M., Chang, C. & **Orsini, C.A.** (2008). Bidirectional changes in the intrinsic excitability of infralimbic neurons reflect a possible regulatory role in the acquisition and extinction of Pavlovian conditioned fear. *Journal of Neuroscience*, 28:7245-7247, PMID: 18632927.

### **SUBMITTED MANUSCRIPTS**

- Orsini, C.A.**, Blaes, S.L., Hernandez, C.M., Wheeler, A.R., Ten Eyck, T.W., Garman, T.S., Bizon, J.L., Setlow, B. Regulation of risky decision making by gonadal hormones in male and female rats. *In*

*preparation.*

### **MANUSCRIPTS IN PREPARATION**

**Orsini, C.A.**, Simon, N.W., Febo, M., Setlow, B. Dynamic neural activity in the basolateral amygdala tracks risk and reward. *In preparation.*

Garman, T.S., Setlow, B., **Orsini, C.A.** The effects of a high-fat diet on impulsive choice in rats. *In preparation.*

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### **BOOK CHAPTERS**

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**2. Orsini, C.A.**, Blaes, S.L., Setlow, B., Simon, N.W. (2019). Recent Updates in Modeling Risky Decision Making in Rodents. In *Psychiatric Disorders: Methods and Protocols*. Firas H. Kobeissy, Editor. Springer Nature.

1. Mitchell, M.R., **Orsini, C.A.**, & Setlow, B. Cocaine and intertemporal decision making.” (2017). In *The Neuroscience of Cocaine: Mechanisms and Treatments*. V. Preedy, Editor. Elsevier.

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### **ABSTRACTS AND CONFERENCE PRESENTATIONS**

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#### **PEER-REVIEWED CONFERENCE TALKS**

**Orsini, C.A.** (2019). Hormonal regulation of risky decision making in male and female rats. *Organization on the Study of Sex Differences, Washington D.C.*

**Orsini, C.A.** (2019). Circuit and receptor mechanisms underlying risk-based decision-making processes. *Winter Conference on Brain Research, Snowmass, Colorado.*

**Orsini, C.A.** (2018). The dynamic role of the basolateral amygdala in decision making. **Panel Co-Chair.** *Winter Conference on Brain Research, Whistler, British Columbia.*

**Orsini, C.A.** (2017). The dynamic role of the basolateral amygdala in decision making. *Amygdala Function in Emotion, Cognition & Disease Gordon Research Seminar. Easton, MA.*

**Orsini, C.A.** (2016). Neurobiological and hormonal modulation of risky decision making in rats. **Panel Co-Chair.** *American College of Neuropsychopharmacology, Hollywood, FL.*

**Orsini, C.A.**, (2016). Behavioral insights into neural circuits for addiction and cognitive function. **Panel Co-Chair.** *Winter Conference on Brain Research, Breckenridge, CO.*

**Orsini, C.A.** (2015). Neurobiology underlying risk-taking: insight into mechanisms mediating cocaine addiction. **Panel Co-Chair.** *Winter Conference on Brain Research, Big Sky, MT.*

**Orsini, C.A.** (2014). The neurobiology of risky decision-making. *International Behavioral Neuroscience Society. Las Vegas, NV.*

**Orsini, C.A.** (2014). Balancing risk and reward. *North Central Florida Society for Neuroscience Symposium. Gainesville, FL.*

#### **NATIONAL/INTERNATIONAL CONFERENCE ABSTRACTS**

**Orsini, C.A.**, Blaes, S.L., Hernandez, C.M., Betzhold, S.M., Perera, H., Wheeler, A.R., Bizon, J.L., Setlow, B. Hormonal regulation of risky decision making in male and female rats. *Research and poster presented at the 58<sup>th</sup> Annual American College of Neuropsychopharmacology meeting*

*in Orlando, FL.*

- Setlow, B., **Orsini, C.A.**, Betzhold, S.M., Wheeler, A.R., Ten-Eyck, T.W., Shallcross, J., Singhal, S., Hardin, S., Schwendt, M., Frazier, C.J., Bizon, J.L. (2019). Dissecting the role of the nucleus accumbens in risk taking with optogenetics. *Research and poster presented at the 58<sup>th</sup> Annual American College of Neuropsychopharmacology meeting in Orlando, FL.*
- Blaes, S.L., **Orsini, C.A.**, Betzhold, S.M., Holik, H.M., Wilson, J., Singhal, S.M., Frazier, C.J., Bizon, J.L., Setlow, B. (2019). Regulation of risky decision making via activity in dopaminergic neurons in the ventral tegmental area. *Research and poster presented at the Society for Neuroscience in Chicago, IL.*
- Dragone, R.J., **Orsini, C.A.**, Pompilus, M., Wheeler, A.R., Febo, M., Setlow, B., Bizon, J.L. (2019). Aging is associated with risk-averse decision making in Fischer 344 X Brown Norway F1 Hybrid Rats. *Research and poster presented at the Society for Neuroscience in Chicago, IL.*
- Orsini, C.A.**, Betzhold, S.M., Wheeler, A.R., Ten-Eyck, T.W., Shallcross, J., Singhal, S., Hardin, S., Schwendt, M., Frazier, C.J., Bizon, J.L., Setlow, B. (2019). Dissecting the role of the nucleus accumbens in risk taking with optogenetics. *Research and poster presented at the Society for Neuroscience in Chicago, IL.*
- Orsini, C.A.**, Betzhold, S.M., Wheeler, A.R., Ten-Eyck, T.W., Shallcross, J., Singhal, S., Hardin, S., Schwendt, M., Frazier, C.J., Bizon, J.L., Setlow, B. (2019). Dissecting the role of the nucleus accumbens in risk taking with optogenetics. *Research and poster presented at Collaborative Research on Addiction at NIH Mentored K Career Development Meeting.*
- Blaes, S.L., **Orsini, C.A.**, Holik, H., Bizon, J.L., Setlow, B. (2018). Effects of inactivation of the lateral habenula on risky decision making. *Research and poster presented at the Society for Neuroscience in San Diego, CA.*
- Orsini, C.A.**, Blaes, S.L., Bizon, J.L., Setlow, B. (2018). Sex differences in the relationship between risk-taking preference and escalation of cocaine self-administration in rats. *Research and poster presented at the Society for Neuroscience in San Diego, CA.*
- Wheeler, A.R., Hernandez, C.M., **Orsini, C.A.**, Ten Eyck, T.W., Labiste, C.C., Setlow, B., Bizon, J.L. (2018). Female rats show greater impulsive choice than males in an intertemporal choice task. *Research and poster presented at the Society for Neuroscience in San Diego, CA*
- Ten Eyck, T.W., Hernandez, C.M., McQuail, J.M., Wheeler, A.R., **Orsini, C.A.**, Ghay, S., Bruner, M.M., Labiste, C.C., Setlow, B., Bizon, J.L. (2018). Altered GABA<sub>B</sub> receptor signaling in the basolateral amygdala may contribute to age-associated differences in intertemporal choice. *Research and poster presented at the Society for Neuroscience in San Diego, CA*
- Hernandez, C.M., **Orsini, C.A.**, Labiste, C.C., Wheeler, A.R., Ten Eyck, T.W., Bruner, M.M., Singhal, S.M., Frazier, C.J., Setlow, B. Bizon, J.L. (2018). Aged rats do not use basolateral amygdala during outcome evaluation in an intertemporal choice task. *Research and poster presented at the Society for Neuroscience in San Diego, CA.*
- Orsini, C.A.**, Hernandez, C.M., Singhal, S. Kelly, K.B., Frazier, C.J. Bizon, J.L., Setlow, B. (2017). Optogenetic inactivation of the basolateral amygdala during risky decision making in rats. *Research and poster presented at the 56<sup>th</sup> Annual American College of Neuropsychopharmacology meeting in Palm Springs, CA.*
- Hernandez, C.M., **Orsini, C.A.**, McQuail, J.A., Labiste, C., Wheeler, A.R., Ten Eyck, T., Singhal, S., Burke, S.N., Frazier, C.J., Setlow, B., Bizon, J.L. (2017). *Research and poster presented at the*

*Society for Neuroscience in Washington, D.C.*

- Blaes, S.L., **Orsini, C.A.**, Garman, T.S., Bizon, J.L., Setlow, B. (2017) Regulation of risky decision making by gonadal hormones. *Research and poster presented at the Society for Neuroscience in Washington, D.C.*
- Orsini, C.A.**, Hernandez, C.M., Singhal, S. Kelly, K.B., Frazier, C.J. Bizon, J.L., Setlow, B. (2017). Optogenetic inactivation of the basolateral amygdala during risky decision making in rats. *Research and poster presented at the Society for Neuroscience in Washington, D.C.*
- Orsini, C.A.**, Hernandez, C.M., Singhal, S. Kelly, K.B., Frazier, C.J. Bizon, J.L., Setlow, B. (2017). Optogenetic inactivation of the basolateral amygdala during risky decision making in rats. *Research and poster presented at Amygdala Function in Emotion, Cognition & Disease Gordon Research Conference in Easton, MA.*
- Orsini, C.A.**, Heshmati, S.C., Wall, S.C., Bizon, J.L., Setlow, B. (2016). The medial prefrontal cortex is critical for the flexibility necessary for adaptive risky decision making. *Research and poster presented at the 55<sup>th</sup> Annual American College of Neuropsychopharmacology meeting in Hollywood, FL.*
- Setlow, B., Blaes, S.L., **Orsini, C.A.**, Ferguson, S.N., Heshmati, S.C., Wall, S.C., Febo, M., Bruijnzeel, A.W., Bizon, J.L. (2016). Effects of acute exposure to cannabis smoke on working memory. *Research and poster presented at the 55<sup>th</sup> Annual American College of Neuropsychopharmacology meeting in Hollywood, FL.*
- Blaes, S.L., **Orsini, C.A.**, Spurrell, M.S., Bizon, J.L., Setlow, B. (2016). Differential effects of D2 and D3 dopamine receptor ligands on risky decision making. *Research and poster presented at the Society for Neuroscience in San Diego, CA.*
- Vetere, L.M., **Orsini, C.A.**, McQuail, J.A., Burke, S.N., Setlow, B., Bizon, J.L. (2016). Age-related alterations in working memory and intertemporal choice in Fischer 344 x Brown Norway Hybrid rats. *Research and poster presented at the Society for Neuroscience in San Diego, CA.*
- Orsini, C.A.**, Heshmati, S.C., Wall, S.C., Bizon, J.L., Setlow, B. (2016). The medial prefrontal cortex is critical for the flexibility necessary for adaptive risky decision making. *Research and poster presented at the Society for Neuroscience in San Diego, CA.*
- Orsini, C.A.**, Simon, N.W., Febo, M., Bizon, J.L., Setlow, B. (2015). Neural activity in the basolateral amygdala in a risky decision-making task in rats. *Research and poster presented at the 54<sup>th</sup> Annual American College of Neuropsychopharmacology meeting in Hollywood, FL.*
- Febo, M., **Orsini, C.A.**, Colon-Perez, L., Heshmati, S., Knackstedt, L., Setlow, B. (2015). Resting state functional connectivity in rat brain during extended daily access to cocaine and abstinence. *Research and poster presented at the 54<sup>th</sup> Annual American College of Neuropsychopharmacology meeting in Hollywood, FL.*
- Setlow, B., Wall, S.C., Heshmati, S., Jagarine, D., Ravula, A., Simpson, K., **Orsini, C.A.**, Febo, M., Bruijnzeel, A. (2015). Effects of Chronic Adolescent Exposure to Cannabis Smoke on Adult Behavioral Outcomes. *Research and poster presented at the 54<sup>th</sup> Annual American College of Neuropsychopharmacology meeting in Hollywood, FL.*
- Orsini, C.A.**, Febo, M., Bizon, J.L., Setlow, B. (2015). Neural activity in the basolateral amygdala in a risky decision-making task in rats. *Research and poster presented at the Society for Neuroscience in Chicago, IL.*

- Orsini, C.A.**, Trotta, R.T., Bizon, J.L., Setlow, B. (2014). Lesions of the orbitofrontal cortex decrease risk taking in rats. *Research and poster presented at the 53rd Annual American College of Neuropsychopharmacology meeting in Phoenix, AZ.*
- Orsini, C.A.**, Trotta, R.T., Bizon, J.L., Setlow, B. (2014). The basolateral amygdala and the orbitofrontal cortex have functionally dissociable roles in a rodent model of risky decision-making. *Research and poster presented at Society for Neuroscience in Washington D.C.*
- Setlow, B., **Orsini, C.A.**, Bizon, J.L. (2014). Aging is associated with reduced choice of risky options in Fischer 344 rats. *Research and poster presented at Society for Neuroscience in Washington D.C.*
- Orsini, C.A.** & Setlow, B. (2014). The effects of traumatic stress on risky decision-making in rodents. *Research and poster presented at the National Center for Gaming Conference in Las Vegas, NV.*
- Orsini, C.A.**, Setlow, C.A. (2013). Lesions of the basolateral amygdala induce elevations in risk taking. *Research and poster presented at Gordon Amygdala in Health and Disease in Easton, MA.*
- Orsini, C.A.**, Setlow, C.A. (2013). Lesions of the basolateral amygdala induce elevations in risk taking. *Research and poster presented at the 52nd Annual American College of Neuropsychopharmacology meeting in Hollywood, FL.*
- Orsini, C.A.**, Wallis, D., Setlow, B. (2013). Behavioral and neurochemical characterization of mutant mice lacking Lphn3, a gene implicated in ADHD and addiction. *Research and poster presented at Society for Neuroscience in San Diego, CA.*
- Orsini, C.A.**, Yan, C., Josselyn, S.A., Maren, S. (2012). Context-dependent neuronal ensembles in the amygdala, prelimbic cortex and ventral hippocampus after fear extinction in rats. *Research and poster presented at the Society for Neuroscience in New Orleans, LA.*
- Orsini, C.A.**, Yan, C., Josselyn, S.A., Maren, S. (2012). Context-dependent neuronal ensembles in the amygdala, prelimbic cortex and ventral hippocampus after fear extinction in rats. *Research and poster presented at the 51st Annual American College of Neuropsychopharmacology meeting in Hollywood, FL.*
- Orsini, C.A.**, Kim, J.H., Knapska, E., Maren, S. (2011). Hippocampal and prefrontal projections to the basolateral amygdala mediate contextual regulation of fear after extinction in rats. *Research and poster presented at the Society for Neuroscience in Washington, D.C.*
- Regmi, N.L., **Orsini, C.A.**, Maren, S., Greene, R.W. (2011). Dysfunctional dorsal hippocampal NMDA receptors are sufficient to induce abnormal renewal of previously extinguished fear. *Research and poster presented at Society for Neuroscience in Washington, D.C.*
- Orsini, C.A.**, Maren, S. (2011). Hippocampal and prefrontal projections to the basal amygdala mediate contextual regulation of fear after extinction in rats. *Research and poster presented at Gordon Amygdala in Health and Disease in Waterville, ME.*
- Chang, C.H., **Orsini, C.A.** & Maren, S. (2010). Delayed, but not immediate, fear extinction induces fos in basolateral amygdala interneurons. *Research and poster presented at the Society for Neuroscience in San Diego, CA.*
- Orsini, C.A.** & Maren, S. (2010). Disconnection of the ventral hippocampus and prelimbic cortex does not disrupt renewal of fear after extinction in rats. *Research and poster presented at the Society for Neuroscience in San Diego, CA.*
- Orsini, C.A.** & Maren, S. (2009). Disconnection of the basolateral amygdala and ventral hippocampus disrupts the renewal of fear after extinction. *Research and poster presented at the Society for*

*Neuroscience in Chicago, IL.*

- Orsini, C.A.** & Maren, S. (2008). Glutamate receptors in the medial geniculate nucleus are necessary for expression and extinction of conditioned fear in rats. *Research and poster presented at Pavlovian Society conference in Weehawken, NJ.*
- Orsini, C.A.** & Maren, S. (2008). Glutamate receptors in the medial geniculate nucleus are necessary for expression and extinction of conditioned fear in rats. *Research and poster presented at the Society for Neuroscience in Washington, D.C.*
- Orsini, C.A.,** Burns, K., McCully, S. & Schaefer, G. (2005). Is there a relationship between letter span capacity and the ability to multi-task? *Research and poster presented at the Maryland Psychological Association, MD.*
- Orsini, C.A.,** Burns, K., McCully, S. & Schaefer, G. (2005). Is there a relationship between letter span capacity and the ability to multi-task? *Research and poster presented at the Eastern Psychological Association in Boston, MA.*
- Spilich, G.J. & **Orsini, C.A.** (2005). Visuospatial performance: sex and sexual orientation effects on the JLAP. *Research and poster presented at the Eastern Psychological Association, Boston, MA.*

### **REGIONAL CONFERENCE ABSTRACTS**

- Orsini, C.A.,** Blaes, S.L., Garman, T.S., Bizon, J.L., Setlow, B. (2018). Regulation of risky decision making by gonadal hormones. *Research and poster presented at the Center for Addiction and Research Education symposium at the University of Florida, Gainesville, FL.*
- Orsini, C.A.,** Hernandez, C.M., Singhal, S., Kelly, K.B., Frazier, C.J., Bizon, J.L., Setlow, B. (2017). Optogenetic inhibition of the basolateral amygdala during risky decision making in rats. *Research and poster presented at the Center for Addiction and Research Education symposium at the University of Florida, Gainesville, FL.*
- Orsini, C.A.,** Heshmati, S.C., Wall, S.C., Bizon, J.L., Setlow, B. (2016). The medial prefrontal cortex is necessary for the flexibility required for adaptive risky decision-making. *Research and poster presented at the Center for Addiction and Research Education symposium at the University of Florida, Gainesville, FL.*
- Orsini, C.A.,** Shimp, K., Bizon, J., Setlow, B., Deng, J. (2014). Risky decision-making modulates the epigenetic factor MECP2. *Research and poster presented at UF College of Medicine Celebration of Research in Gainesville, FL.*
- Trotta, R., **Orsini, C.A.,** Bizon, J., Setlow, B. (2014). Lesions of the orbitofrontal cortex induce decreased risk taking in rats. *Research and poster presented at the North Central Florida Society for Neuroscience Symposium in Gainesville, FL.*
- Trotta, R., **Orsini, C.A.,** Bizon, J., Setlow, B. (2014). Lesions of the orbitofrontal cortex induce decreased risk taking in rats. *Research and poster presented at the UF College of Medicine Celebration of Research in Gainesville, FL.*
- Orsini, C.A.,** Setlow, C.A. (2013/2014). Lesions of the basolateral amygdala induce elevations in risk taking. *Research and poster presented at North Central Florida Society for Neuroscience Symposium in Gainesville, FL.*
- Orsini, C.A.,** Setlow, C.A. (2013/2014). Lesions of the basolateral amygdala induce elevations in risk taking. *Research and poster presented at UF College of Medicine Celebration of Research in Gainesville, FL.*



**Orsini, C.A.,** Ginton, G., Shimp, K.G., Avena, N.M, Gold, M.S., Setlow, B. (2013). The effects of chronic amphetamine exposure on consummatory behavior during withdrawal. *Research and poster presented at the UF College of Medicine Celebration of Research in Gainesville, FL.*

**Orsini, C.A.,** Ginton, G., Shimp, K.G., Avena, N.M, Gold, M.S., Setlow, B. (2013). The effects of chronic amphetamine exposure on consummatory behavior during withdrawal. *Research and poster presented at the Center for Addiction Research and Education symposium, in Gainesville, FL.*

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## INVITED TALKS AND GUEST LECTURES

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**Orsini, C.A.** (2019). Hormonal regulation of risky choice. *Florida Consortium on the Neurobiology of Cognition. Gainesville, Florida.*

**Orsini, C.A.** (2019). Sex differences in the relationship between risk taking and cocaine self-administration. *Center for Addiction Research and Education External Advisory Seminar.*

**Orsini, C.A.** (2018). Basolateral amygdala contributions to cost/benefit decision making: implications for substance use disorder. *Mount Sinai Neuroscience seminar series, Icahn School of Medicine.*

**Orsini, C.A.** (2017). The dynamic role of the basolateral amygdala in decision making: implications for substance use disorder. *National Institute on Drug Abuse/National Institute on Alcohol Abuse and Alcoholism Neuroscience Workgroup.*

**Orsini, C.A.** (2016). Risky decision making and substance use. *Guest Lecture in Neurobiology of Substance Abuse.*

**Orsini, C.A.** (2015). Neurobiology underlying risk-taking: insight into mechanisms mediating cocaine addiction. *University of Puerto Rico School of Medicine.*

**Orsini, C.A.** (2015). Neurobiology underlying risk-taking: insight into mechanisms mediating cocaine addiction. *Invited lecture to Animal Care Services at the University of Florida.*

**Orsini, C.A.** (2014). Risky decision-making and drug addiction. *Guest Lecture in Neurobiology of Substance Abuse.*

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## CONTINUED EDUCATION

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- Cold Spring Harbor Cellular Biology of Addiction course, August 2013
- The CAJAL Advanced Neuroscience Training Programme: Linking Neural Circuits and Behaviour, October 2018
- Collaborative Research on Addiction at NIH Mentored K Career Development Meeting, August 2019

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## HONORS AND AWARDS

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- Center for Addiction Research Education Travel Award (2016, 2017, 2018)
- North Central Florida Society for Neuroscience Travel Award (2016)
- McKnight Brain Institute Travel Award (2016)
- Winter Conference on Brain Research Travel Fellowship (2015)
- North Central Florida Society for Neuroscience Travel Award (2014)

- International Behavioral Neuroscience Society Travel Award (2014)
- North Central Florida Society for Neuroscience Chapter Award (2013)
- American College of Neuropsychopharmacology Travel Award (2012)
- Rackham Travel Award, University of Michigan (2008, 2009, 2010, & 2011)
- National Science Foundation Honorable Mention, University of Michigan (2008)
- George Washington Medal, Washington College (2007)
- Psi Chi Honor Society (2006 – 2007)
- Board of Governor and Visitor’s Award, Washington College (2007)
- Sophomore Alumni Medal, Washington College (2006)
- Fox Freshman Scholarship Award, Washington College (2005)
- Freshman Chemistry Achievement Award, Washington College (2004)
- Dean’s List, Washington College (2003 – 2007)

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## PROFESSIONAL SERVICE

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### North Central Florida Society for Neuroscience Chapter

- *Conference Coordinator* (2014 – 2016)

### Gordon Research Conference

- Chair for the 2015 *Amygdala in Health and Disease* Gordon Research Seminar
- Associate Chair for the 2013 *Amygdala in Health and Disease* Gordon Research Seminar

### Center for Addiction Research and Education

- *External Speaker Committee member* (July 2018-current)

### Manuscript Reviewer

- *Neuroscience*
- *British Journal of Pharmacology*
- *Brain Structure & Function*
- *Behavioral Neuroscience*
- *PLoS One*
- *Learning and Memory*
- *Neurobiology of Aging*
- *Behavioural Brain Research*
- *Neuropsychopharmacology*
- *Psychopharmacology*
- *Journal of Psychopharmacology*
- *Psychoneuroendocrinology*
- *Journal of Neuroscience Research*
- *Frontiers in Behavioral Neuroscience*

### Grant Reviewer

- *National Center for Responsible Gaming* (2016-2018)
- *College of Medicine Thomas H. Maren Fellowship* (2017, 2019)

### Editorial Boards

- *Frontiers in Behavioral Neuroscience* (November 2018-present)

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## TEACHING & MENTORING EXPERIENCE

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### University of Michigan (Ann Arbor, MI)

- Graduate Student Instructor & Head Mentor, “Introduction to Biopsychology” (2009)

- Biopsychology Concentration Advisor, Department of Psychology (2009)
- Psychology Student Academic Affairs Advisor (2009)
- Grader, “Biopsychology of Learning and Memory” (2009)
- Grader, “Neuropsychology of Learning and Memory” (2011)

**Washington College (Chestertown, MD)**

- Course Mentor, Computer Science Department (2003 – 2006)
- Psychology TA (2004 – 2005)
- Peer Mentor (2004 – 2005)

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**PAST LEADERSHIP/ACADEMIC ROLES**

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**University of Michigan (Ann Arbor, MI)**

- Research Fellow, Biopsychology Department (2007-2012)
- Biopsychology Departmental Associate (2009-2010)

**University College, London (London, UK)**

- Research Intern, Psychology Department (2006)

**Washington College (Chestertown, MD)**

- Speaker of the Senate (2006)
- Psychology Research Assistant, Psychology Department (2003-2005)

**George Washington University (Washington, DC)**

- Intern – School of Public Health and Health Services (Summer 2005)

**Mental Health Initiatives, Non-Profit Organization (Washington, DC)**

- Intern (Summer 2005)

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**PROFESSIONAL AFFILIATIONS**

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- Society for Neuroscience (2008-Present)
- American Psychological Association (2009-Present)
- International Behavioral Neuroscience Society (2012-Present)
- Pavlovian Society (2007-2010)
- Molecular Cellular Cognition (2010-2012)

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**METHODOLOGICAL AND LABORATORY EXPERIENCE**

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- Behavioral pharmacology
- Stereotaxic surgery
- Immunohistochemistry
- *In situ* hybridization
- Fluorescent and confocal microscopy
- *In vivo* electrophysiology
- Drug self-administration
- Optogenetics