**Amy E. Perkins, PhD**

Teaching Assistant Professor

University of Illinois Urbana-Champaign

[aper1@illinois.edu](mailto:aper1@illinois.edu)

(937) 620-2957

**EDUCATION**

2009 - 2014 Doctor of Philosophy (Experimental Psychology)

University of South Carolina (Columbia, SC)

Advisor: Sandra Kelly, PhD

Master of Arts (Experimental Psychology)

University of South Carolina (Columbia, SC)

Advisor: Sandra Kelly, PhD

2005 - 2009 Bachelor of Science (Psychology)

Wright State University (Dayton, OH)

Major Concentration: Behavioral Neuroscience

**RESEARCH & PROFESSIONAL EXPERIENCE**

2018 – present **Teaching Assistant Professor**

Psychology Department

University of Illinois Urbana-Champaign (Champaign, IL)

2014 – 2018 **Postdoctoral Researcher**

Psychology Department

Binghamton University (Binghamton, NY)

PI: Terrence Deak, PhD

2009 – 2014 **Graduate Research Assistant**

Psychology Department

University of South Carolina (Columbia, SC)

PI: Sandra Kelly, PhD

2007 – 2009 **Research Assistant**

Psychology Department

Wright State University (Dayton, OH)

PI: Dragana Claflin, PhD

2008 – 2009 **Research Assistant**

Psychology Department

Wright State University (Dayton, OH)

PI: Michael Hennessy, PhD

**PEER-REVIEWED PUBLICATIONS**

**Perkins, A.E.,** Vore, A.S., Lovelock, D., Varlinskaya, E.I., Deak, T. Late-aging alters behavioral sensitivity to ethanol in a sex specific manner in Fischer 344 rats, Pharmacology, Biochemistry, and Behavior*, in press*

**Perkins, A.E.,** *Piazza, M*., Deak, T. (2018). Stereological analysis of microglia in aged male and female Fischer 344 rats in socially-relevant brain regions. Neuroscience, 377, 40-52.

**Perkins, A.E.,** Woodruff, E.R., Chun, L.E., Spencer, R.L., Varlinskaya, E.I., Deak, T. (2017). Analysis of c-fos induction in response to social interaction in male and female Fischer 344 rats. Brain Research, 1672, 113-121.

**Perkins, A.E.** Doremus-Fitzwater, T.L., Spencer, R.L., Varlinskaya, E.I., Conti, M.M., Bishop, C., Deak, T. (2016). A working model for the assessment of disruptions in social behavior among aged rats: The role of sex differences, social recognition, and sensorimotor processes. Journal of Experimental Gerontology, 76, 46-57.

**Perkins, A.E.**, Fadel, J., Kelly, S.J. (2015). The effects of postnatal alcohol exposure and galantamine on the context pre-exposure facilitation effect and acetylcholine efflux using in vivo microdialysis. Alcohol, 49(3), 193-205.

Shorter, K.R., Owen, A., Anderson, V., Hall-South, A.C., Hayford, S., Cakora, P., Crossland, J.P., Georgi, V.R., **Perkins, A.**, Kelly, S.J., Felder, M.R., Vrana, P.B (2014). Natural genetic variation underlying differences in Peromyscus repetitive and social/aggressive behaviors. Behavior Genetics, 44(2), 126-135

**Perkins, A.**, Lehmann, C., Lawrence, R.C., Kelly, S.J. (2013). Alcohol exposure during development: Impact on the epigenome. International Journal for Developmental Neuroscience, 31(6), 391-7.

**MEETING ABSTRACTS/ORAL PRESENTATIONS**

Ravenel, J.R., **Perkins, A.E.,** Defendini, A., Deak, T., Spencer, R.L. Analysis of neuronal activation in response to novel social interaction in forebrain oxytocin target neurons of young and old F344 female rats. *Society for Neuroscience*, San Diego, CA, November 2018

Barney, T.M., **Perkins, A.E.**, Piazza, M.K., Deak, T. Assessment of neuroinflammation in the aging brain using large-molecule microdialysis: sex differences and involvement of purinergic receptors. *Society for Neuroscience*, San Diego, CA, November 2018

**Perkins, A.E.**, Lovelock, D., Tomczik, A., Spencer, R.L., Deak, T. Aging-related alterations in oxytocin in paraventricular nucleus of the hypothalamus and posterior bed nucleus of the stria terminalis. *Society for Neuroscience*, Washington, D.C., November 2017

**Perkins, A.E.**, Vore, A.S., Varlinskaya, E.I., Deak, T. Late-aging alters behavioral sensitivity to ethanol in a sex specific manner in Fischer 344 rats. *Society for Neuroscience*, Washington, D.C., November 2017

Lanza, K., **Perkins, A.E.,** Deak, T., Bishop, C. The impact of age on 6-OHDA lesion and L-DOPA-induced dyskinesia in the hemi-Parkinsonian rat. *Society for Neuroscience*, Washington, D.C., November 2017

**Perkins, A.E.,** McNamara, T., Deak, T. Stereological assessment of microglia number and morphology reveals sex differences in aged male and female F344 rats in socially relevant brain structures. *Society for Neuroscience*, San Diego, CA, November 2016

Mondello, *J.E*., **Perkins, A.E.,** Varlinskaya, E.I., Deak, T. The impact of housing conditions in aged Fischer 344 rats on social behavior and cytokine expression within socially-relevant circuits. *Society for Neuroscience*, San Diego, CA, November 2016

Deak, T., **Perkins, A.E.,** Tomczik, A.C., Woodruff, E.R., Chun, L.E., Spencer, R.L. Aged females exhibit blunted c-Fos induction in response to social interaction. *Society for Neuroscience*, San Diego, CA, November 2016

**Perkins, A.E.**, Spencer, R.L., Varlinskaya, E.I., Woodruff, E.R., Chun, L.E., Interrant, *J.E.*, Deak, T. Analysis of c-Fos expression following a social experience: Examination of sex differences in adult and aged Fischer 344 rats reveals that females, but not males, display enhanced neural activation after social interaction. *Society for Neuroscience*, Chicago, IL, October 2015.

**Perkins, A.E.**, Fadel, J.R., Kelly, S.J. Disruption of hippocampal acetylcholine efflux in an animal model of fetal alcohol spectrum disorders. *Research Society on Alcoholism*, San Antonio, TX. June 2015.

Capps, A.C., **Perkins, A.E.**, Macht, V.A., Kelly, S.J. Social buffering of the stress response in peromyscus polionotus. *Southeast Neuroscience Conference*, Augusta, GA. April 2014.

Macht, V.A., Wood, D., **Perkins, A.E.**, Kelly, S.J. The impact of chronic juvenile amphetamine treatment on locomotor activity: Implications for the treatment of Fetal Alcohol Syndrome. *Southeast Neuroscience Conference*, Augusta, GA. April 2014.

**Perkins, A.E.,** Capps, A.C.,Kelly, S.J. The relationship between social structure, voluntary alcohol consumption, and tyrosine hydroxylase in three Peromyscus species. *Society for Neuroscience*, San Diego, CA, November 2013.

Macht, V.A., Capps, A.C., **Perkins, A.E.**, Kelly, S.J. Comparison of stress reactivity to predator odor in promiscuous and monogamous species of Peromyscus. *Society for Neuroscience*, San Diego, CA, November 2013.

**Perkins, A.E.,** Capps, A.C., Kelly, S.J. Voluntary ethanol consumption in three *Peromyscus* species that differ in social structure. *Research Society on Alcoholism,* San Francisco, CA, June 2012.

**Perkins, A. E.,** Lehmann, C. F., Lawrence, R. C., Kelly, S. J. Alterations in the hippocampal genome as a result of perinatal exposure to ethanol in the rat.  *International Behavioral Neuroscience*; Steamboat Springs, CO, May 2011.

**TEACHING EXPERIENCE**

2019 **Stress, Trauma, and Resilience**

Teaching Assistant Professor

University of Illinois Urbana-Champaign

*Scheduled for Spring 2019*

2018-2019 **Behavioral Neuroscience**

Teaching Assistant Professor

University of Illinois Urbana-Champaign

*Fall 2018; Scheduled for Spring 2019*

2018 **Brain, Learning, and Memory**

Teaching Assistant Professor

University of Illinois Urbana-Champaign

2018 **Behavioral Neuroscience (online course)**

Instructor of Record

Binghamton University

2017 **Neurobiology of Aging Seminar**

Instructor of Record

Binghamton University

2016 **Freshman Research Immersion Neuroscience Stream**

Guest Lecturer

Binghamton University

2014 **Learning & Memory**

Instructor of Record

University of South Carolina

2014 **Carolina Master Scholars Neuroscience**

Instructor of Record

1-week course in Neuroscience for middle and high school students

University of South Carolina

2011-2014 **Physiological Psychology**

Instructor of Record

University of South Carolina

2013 **Introduction to Psychology**

Guest Lecturer

University of South Carolina

2012 **Carolina Master Scholars Neuroscience**

Teaching Assistant

University of South Carolina

2012 **Duke TIP Scholar Weekend: Neuroscience**

Teaching Assistant

University of South Carolina

2010 **Introduction to Neuroscience**

Guest Lecturer

University of South Carolina

2010 **Laboratory in Psychological Methods**

Teaching Assistant

University of South Carolina

2009 **Behavioral Neuroscience Methods**

Teaching Assistant

Wright State University

**SERVICE & OUTREACH**

2018 **Committee for Undergraduate Education**

University of Illinois Urbana-Champaign

2013 **Graduate Student Representative, Psychology Faculty Meetings**

University of South Carolina

2012 **Workshop Leader at 2012 Symposium for Young Neuroscientists and Professionals of the South East**

University of South Carolina

2012 **Neuroscience presentation to visiting high school students**

University of South Carolina

2011 **Neuroscience presentation at local middle school**

Northside Middle School

2010 **Neuroscience presentation at local middle school**

Irmo Middle School

2009 **Neuroscience presentation at local high school**

Spring Valley High School

**PROFESSIONAL DEVELOPMENT**

2018 **Teaching Online Certification Program**

Binghamton University Center for Learning and Teaching

2018 **Moving Beyond the Cookbook Lab: Key Ingredients for**

**Course-Based Undergraduate Research Experiences (CUREs)**

Binghamton University Center for Learning and Teaching

**PROFESSIONAL MEMBERSHIPS**

Society for Neuroscience

Research Society on Alcoholism

**AWARDS**

2015 **Junior Investigator Travel Award**

Research Society on Alcoholism

2011 **Student Merit Travel Award**

Research Society on Alcoholism