

KYLE J. FRANTZ, Ph.D.**Rank:** Professor**Primary Appointment:** Neuroscience Institute**Joint Appointment:** Biology**College of Arts & Sciences****Georgia State University****Email :** kfrantz@gsu.edu**Ph :** 404-413-5338**EDUCATION**

- **1991 B.A.** in Psychology from the **University of Pennsylvania**.
- **1995 M.S.** in Psychobiology/Behavioral Neuroscience from the **University of Florida**.
- **1998 Ph.D.** in Psychobiology/Behavioral Neuroscience from the **University of Florida**.

SCHOLARSHIP & PROFESSIONAL DEVELOPMENT**PROFESSIONAL POSITIONS**

- **1989-1992 University of Pennsylvania, Department of Psychology.**
Undergraduate Assistant and Post-Graduate Technician with Drs. Harvey Grill and Alan Spector. Gustatory mechanisms and brainstem regulation of caloric intake in rats.
- **1992-1998 University of Florida, Department of Psychology.**
Graduate Assistant with Dr. Carol Van Hartesveldt. Developmental psychobiology, influence of environmental novelty, sex, and postnatal age on the locomotor effects of dopaminergic and glutamatergic drugs, injected peripherally or centrally (nucleus accumbens or striatum) in rats.
- **1995-1996 Karolinska Institute, Department of Physiology and Pharmacology.**
Fulbright Grantee with Dr. Urban Ungerstedt. Functional neuroanatomy investigating prefrontal cortex to ventral tegmental area projections using dual-probe microdialysis and high performance liquid chromatography (HPLC).
- **1998 University of Florida, Department of Psychiatry.**
Research Associate with Dr. Mark Lewis. Effects of fluoxetine (Prozac) or a serotonin synthesis inhibitor on environmentally-induced motor stereotypies in *Peromyscus maniculatus* (deer mouse).
- **1999-2002 The Scripps Research Institute, Department of Neuropharmacology.**
Individual NRSA-funded Postdoctoral Fellow with Dr. Loren Parsons. Research on acute and long-term neurobehavioral effects of MDMA (ecstasy) or cocaine in periadolescent and adult rats using drug self-administration, microdialysis, and HPLC. Also investigated serotonin₆ receptors in behavior and neurochemistry.
- **2002-present Georgia State University, Neuroscience Institute & Department of Biology.**
Assistant Professor (2002-2008)
Tenured Associate Professor (2008-2013)
Professor (since 2013) and Science Educator, with two distinct lines of scholarly activity:
Science Education Administration & Research: Design, implement, and evaluate science education programs for K-12 students, undergraduates, and members of the public. Research tests hypotheses related to effects of program design on student outcomes, such as scientific research self-efficacy. Aims to improve science education at the K-12 levels and to advance training opportunities in higher education.
Laboratory Research: Test hypotheses related to adolescent vulnerability to drugs of abuse (e.g. psychomotor stimulants and opiates), using the intravenous drug self-administration model in rats.

• **2013-present Georgia State University, Office of the Vice Provost**

Senior Faculty Associate for Special Programs

Oversee Special Programs at Georgia State University, including signature experiences, interdisciplinary programs across colleges, and co-operative education. For signature experiences, conduct evaluation on student outcomes, design and review new signature opportunities, and promote engagement by students and faculty. For interdisciplinary programs, aid faculty and administrators in designing and gaining approval for new cross-college programs such as a Master's of Interdisciplinary Studies. For co-operative education, eventually join Robin Morris, PhD, in working with Career Services, specific departments, and community partners on integrated education and professional experience.

SCIENCE EDUCATION ADMINISTRATION & RESEARCH – PROGRAM ADMINISTRATION

- 2003-2011 **Institute On Neuroscience (ION):** Program Founder & Director for high school summer research immersion: ~10 students/year, 8 weeks/year, range from \$7,500~\$35,000/year budget.
- 2012-present **Institute On Neuroscience for High School Students & Teachers (ION/Teach):** Director and PI for 10 students/year and 5 teachers/year, 8 weeks/year, \$100,000/year; NIH-funded since 2013.
- 2003-2010 **BrainsRule! Neuroscience Exposition:** Program Director for public education program: >4,000 visitors total, ~200 volunteers, 2 days each year, ~\$15,000/year budget.
- 2005-present **Behavioral Research Advancements in Neuroscience (BRAIN):** Curriculum Designer (2007) and Program Director (2005 and 2009-present) for undergraduate summer research experience program: ~\$250,000/year operating budget, plus ~\$100,000/year for evaluation.
- 2010-2011 **Renfroe Middle School Brain Day:** Program Co-Director for middle school education program: facilitates neuroscience-themed field trip to Zoo Atlanta for all seventh graders at school, including pre- and post-field trip classroom visits ~200 students & chaperones, 10 volunteers, 3 days/yr, \$500.
- 2011-present **Atlanta's Neuroscience Education & Training Program (NET/work):** Program Director for NIH BP-ENDURE Program offering two-year undergraduate research fellowships for students from Agnes Scott College, Emory University, Georgia State, and Spelman College: ~\$260,000/year operating budget, plus ~\$10,000/year for evaluation.
- 2013-present **Georgia State's Committee on the Atlanta Science Festival:** Committee Co-Chair (with Jeffery Boortz, School of Art & Design): \$60-90,000 annual operating budget with central initiatives including "Discovery Day" (a regional high school student recruitment event showcasing research and art); "Eureka Screen Series" (science-themed film festival); and "The Fusion Gallery" (live art and gallery show featuring artists integrating science into subjects and media).

SCIENCE EDUCATION ADMINISTRATION & RESEARCH - PUBLICATIONS

1. Demetrikopoulos, M.K., Parlier, D., Caldwell, H.K., Rose, J.D., **Frantz, K.J.**, Carruth, L. (2004) Developing Flexible Professional Development Opportunities to Meet Diverse Teacher Needs. *Science Scope*, 27(5): 16-19.
2. **Frantz, K.J.** (2004) The Human HPLC column: minds-on neuroscience for the next generation. *Annals of the New York Academy of Sciences*, 1021: 323, 371-375.
3. Kirstein, C., White, A., **Frantz, K.J.** (2004) Introduction to Short Papers. *Annals of the New York Academy of Sciences*, 1021: 323.
4. **Frantz, K.J.**, DeHaan, R.L., Demetrikopoulos, M.K., Carruth, L.L. (2006) Routes to Research for Novice Undergraduate Neuroscientists. *Cell Biology Education – Life Sciences Education*, 5: 175-187.
5. Zardetto-Smith, A.M., Mu, K., Carruth, L.L., **Frantz, K.J.** (2006) Brains Rule!: A Model Program for Developing Professional Stewardship Among Neuroscientists. *Cell Biology Education – Life Sciences Education*, 5: 158-166.
6. **Frantz, K.J.** (2007) The Human HPLC column: minds-on neuroscience for the next generation. *The Science Teacher* 74(1): 33-39.
7. Pecore, J., Demetrikopoulos, M.K., **Frantz, K.J.** (2007) Student-centered deliberations of ethical care and use of animals. *American Biology Teacher* 69(7): 416-421.
8. **Frantz, K.J.**, McNerney, C., Spitzer, N. (2009) We've got NERVE: A Call to Education Arms. *J Neurosci* 29(11):3337-3339.

9. Goode, C.T., Britner, S. L., Gagne, P.E., Pecore, J.L., Demetrikopoulos, M.K., Williams, B.A., Carruth, L.L., DeHaan, R.L., & **Frantz, K.J.** (2012) Scientific Research Self-Efficacy among Undergraduates: Current Contexts and Approaches to Measurement. In Britner, S. L. (Ed) *Self-Efficacy in Education and Community Contexts*, Nova Science Publishers, Inc., New York.
10. Britner, S. L., Williams, B. A., Pecore, J. L., Gagne, P., Demetrikopoulos, M. K., Poh, R., Carruth, L. L., Goode, C. T., DeHaan, R. L., **Frantz, K. J.** (2012). Portraits of science self-efficacy: Four undergraduate women in a summer research experience. *J Women & Minorities in Science and Engineering*, (18)273-293.
11. Pecore, J.L., Kirchgessner, M.L., Demetrikopoulos, M.K., Carruth, L.L., **Frantz, K.J.** (under revision) Formal Lessons Improve Informal Learning: Influence of Novelty, Readiness, and Student Engagement. *Visitor Studies*.

SCIENCE EDUCATION ADMINISTRATION & RESEARCH - SELECTED PUBLISHED ABSTRACTS

1. **Frantz, K.J.** & Bodawala, H. (2003) M&MDMA: Teaching A Human Model of MDMA Pharmacodynamics. Program No. 27.6. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2003. Online.
2. Carruth, L.L., Rose, J.D., Caldwell, H.K., **Frantz, K.J.**, Boyle, K., Duckett, A.E., Morris, L.G., Demetrikopoulos, M.K. (2003) Developing community partnerships for sustained neuroscience K-12 and public educational programs. Program No. 27.7. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2003. Online.
3. **Frantz, K.J.**, Redmond, J.C., Rose, J.D., Demetrikopoulos, M.K., Morris, L.G., Gray, D., Zardetto-Smith, A., Carruth, L.L. Undergraduate opportunities in K-12 neuroscience education. Program No. 27.5. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004. Online.
4. Zardetto-Smith, A.M., Schneider, R., Rose, J.D., Redmond, J.C., Mu, K., **Frantz, K.J.**, Demetrikopoulos, M.K., Carruth, L.L. Brains rule! Neuroscience expositions: A model for improving the ability of neuroscience professionals to communicate neuroscience. Program No. 26.10. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004. Online.
5. Totah, N.K.B, Morris, L.G., Lurtz, M.M., Waikel, R.L., Gray, D., **Frantz, K.J.** Becoming a scientist: High school apprenticeships in neuroscience. Program No. 26.14. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004. Online.
6. Zola, S.M., Demetrikopoulos, M.K., **Frantz, K.J.**, Redmond, J.C., Morris, L.G., Carruth, L.L., Chudler, E.H., Cameron, W.E. Society for neuroscience presence at science teacher meetings. Program No. 27.10. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004. Online.
7. Redmond, J.C., Demetrikopoulos, M.K., Morris, L.G., Pecore, J., Parlier, D., **Frantz, K.J.**, Carruth, L.L. Teaching about gender differences in memory and performance. Program No. 28.1. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004. Online.
8. **Frantz, K.J.**, Carruth, L.L., Hanna, N.R., DeHaan, R.L. (2005) A Study in Neuroscience Education: Comparing Two Routes to Research for Novice Undergraduates. Program No. 22.5. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2005. Online.
9. Totah, N.K.B., Hayslett, R., Morris, L.G., Lurtz, M.M., **Frantz, K.J.** Capturing Student Interest: High School Apprenticeships in Neuroscience. Program No. 19.15. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2005. Online.
10. Carruth, L., **Frantz, K.**, Pecore, J., Murphy, S., Parlier, D., Demetrikopoulos, M. (2006) Brain camp for kids: using neuroscience as a theme for summer camp enrichment. 2006 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006.
11. **Frantz, K.**, Carruth, L., DeHaan, R. (2006) Best practices in science education: a conference on active teaching and learning. 2006 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006.
12. Carruth, L., **Frantz, K.** (2007) Toward integration: dual-role bench and education scientists. 2007 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2007.
13. Demetrikopoulos, M.K., Pecore, J.L., Britner, S.L., Carruth, L.L., DeHaan, R.L., Falkenberg, K.L., Gagne, P.E., Goode, C.T., Williams, B.A., & **Frantz K.J.** (2009) Comparing Collaborative Research and Apprenticeship Models in Designing Undergraduate Summer Programs. Third Annual Conference on Understanding Interventions that Broaden Participation in Research Careers, Bethesda, MD, May 2009.
14. Pecore, J.L., Carruth, L.L., Hill, C., Demetrikopoulos, M.K., Zardetto-Smith, A., **Frantz, K.J.** (2009) Methods to maximize student engagement in informal science education. 2009 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2009.
15. Pecore, J.L., Demetrikopoulos, M.K., Carruth, L.L., DeHaan, R.L., Britner, S.L., Galkenberg, K.L., Gagne, P.E., Williams, B.A., Oliver, T.R., Goode, C.T., Poh, R., Weaver, E., & **Frantz, K. J.** (2010). Varied summer research

- experiences for undergraduate students evaluated with a mixed-methods (quantitative and qualitative) approach. *2010 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Washington, DC.
16. Carruth, L.L., Demetrikopoulos, M.K., Pecore, J.L., Goode, C.T., Britner, S.L., Williams, B.A., Weaver, L., Falkenberg, K.L., Oliver, T., Poh, R., Gagne, P.E., DeHaan, R.L., & **Frantz K.J.** (2011) Use of the experience sampling method (ESM) to assess summer research experiences by undergraduate students. *2011 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Washington, DC.
 17. **Frantz, K.J.**, Britner, S.L., Pecore, J.L., Williams, B.A., Weaver, E.A., Poh, R., Gagne, P., Demetrikopoulos, M.K., Carruth, L.L., Goode, C.T., DeHaan, R.L. (2012) Collaborative research for undergraduates in neuroscience: A case study comprised of qualitative exploration of scientific research self-efficacy. *2012 Abstract Viewer/Itinerary Planner*. Soc for Neuroscience, New Orleans, LA.
 18. Goode, C.T., Britner, S.L., Carruth, L.L., Gagne, P., Demetrikopoulos, M.K., Williams, B.A., Pecore, J.L., Weaver, E.A., Poh, R.L., DeHaan, R.L., **Frantz, K.J.** (2012) Collaborative research for undergraduates in neuroscience: Quantitative assessment of scientific research self-efficacy and related constructs. *2012 Abstract Viewer/Itinerary Planner*. Soc for Neuroscience, New Orleans, LA.
 19. **Frantz, K.J.**, Goode, C.T., Larimore, J.L., Buffalo, E.A., Smith, Y., Brakke, K., McKlin, T. (2013) BP-ENDURE Atlanta: engaging undergraduates in neuroscience research. Soc for Neuroscience, San Diego, CA.
 20. Goode, C.T., Maney, D.L., De Vries, G., **Frantz, K.J.** (2014) The Institute On Neuroscience (ION) Summer Research Program for Outstanding High School Students and Teachers. Soc for Neuroscience, Washington, DC.

SCIENCE EDUCATION ADMINISTRATION & RESEARCH - SEMINAR PRESENTATIONS

1. Morris, L.G., Zardetto-Smith, A., **Frantz, K.J.** (2003) Hands-On Neuroscience Activity at the Society for Neuroscience Annual Meeting: “Analyze This: Neurotransmission and Chemical Separation”, New Orleans, November 2004.
2. **Frantz, K.J.** (2003&2004) “Stress and the Brain” Seminar for the Ben Carson Academy Brain Camp. Morehouse School of Medicine, July.
3. **Frantz, K.J.** (2003) “Teaching Scientific Ethics” seminar consultant for *Animal Behavior: Why They Do What They Do at the Zoo*, a Teacher Professional Development Workshop at Zoo Atlanta, June 2003.
4. **K.J. Frantz**, L.L. Carruth, J. Redmond, D. Parlier, J. Pecore, L.G. Morris, M.K. Demetrikopoulos. (2004) “His & Her Brain Turn Ons.” National Science Teacher’s Association (NSTA), Atlanta, April 2004.
5. L.L. Carruth, **K.J. Frantz**, D. Parlier, J. Pecore, M.K. Demetrikopoulos. (2004) “Sex on Your Mind: Gender Differences in Learning.” National Science Teacher’s Association (NSTA), Atlanta, April 2004.
6. Pecore, J., **Frantz, K.J.** (2004) “Teaching Scientific Ethics” seminar consultant for *Animal Behavior: Why They Do What They Do at the Zoo*, a Teacher Professional Development Workshop at Zoo Atlanta, July 2004.
7. **Frantz, K.J.** (2005) “The Agony of Ecstasy and Other Tales of Teens” Georgia State University Research Seminar, Atlanta, February 2005.
8. **Frantz, K.J.** (2005) “Teen Drug Abuse and Prevention via Science Education and Laboratory Research” Georgia State University Careers Seminar, Atlanta, September 2005.
9. **Frantz, K.J.** (2005) “Best Practices in Science Education” Conference Organizer and Presenter. Yerkes National Primate Research Center, Atlanta, October 2005.
10. **Frantz, K.J.** (2006) “Neuroscience Education: Scholarly *and* Fun” Southeast Nerve Net (SENN) Conference Presentation. The Georgia Aquarium, March 2006.
11. **Frantz, K.J.** (2006) “Professional Skills for Researchers” Discussion Leader, Survival Skills Workshop in conjunction with Society for Neuroscience Annual Meeting, Atlanta, October 2006.
12. **Frantz, K.J.** (2007) “Lessons Learned from BRAIN Research” STC Broadening Participation Workshop on Diversifying the Science & Engineering Workforce. San Francisco, March 2007.
13. **Frantz, K.J.** (2007) “Two Routes to Research: Bench and Education Science at GSU” Georgia State University Graduate Seminar, Atlanta, July 2007.
14. **Frantz, K.J.** (2008) “Undergraduates in Research: A Collaborative Model” Southeastern Society for Developmental Biology Regional Meeting, Atlanta, April 2008.
15. **Frantz, K.J.** & Carruth, L.L. (2008) “Build-A-Brain” Invited presentation at Presidential Awards for Excellence in Math and Science Teaching - Recognition Week, Washington D.C., April 2008.
16. **Frantz, K.J.** (2008) “Collaborative Research for Novice Undergraduates” Invited presentation at Principal Investigators Meeting for NIGMS Efficacy Grant Awardees, Santa Cruz, CA, August 2008.
17. **Frantz, K.J.** (2009) “Neuroscience in Education Summit: Day 1 Summary & Synthesis” Invited discussion at Society for Neuroscience Presidential Initiative, Irvine, CA, June 2009.
18. **Frantz, K.J.** (2009) “Collaborative Research for Novice Undergraduates” Invited presentation at Principal Investigators Meeting for NIGMS Efficacy Grant Awardees, San Francisco, CA, August 2009.

19. **Frantz, K.J.** (2009) “Single-shot and in-depth neuroscience education programs: recruitment and retention.” Invited presentation in symposium entitled “Translational Neuroscience: From Bench to Classroom and Back” 2009 *Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Chicago.
20. **Frantz, K.J.** and Williams, B.A. (2011) “Collaborative learning experiences and traditional apprenticeships produce positive outcomes for undergraduate neuroscientists” and “Self-efficacy and science identity in an undergraduate neuroscience summer program: a case study” 4th Annual Conference on Understanding Interventions that Broaden Participation in Research Careers, Nashville, TN, May 2011.
21. Britner, S. and **Frantz, K.J.** (2012) “Collaborative Research for Novice Undergraduates” Invited presentation at Principal Investigators Meeting for NIGMS Efficacy Grant Awardees, San Francisco, CA, August 2012.
22. Goode, C. and **Frantz, K.J.** (2013) “Collaborative Research for Novice Undergraduates” Invited presentation at Principal Investigators Meeting for NIGMS Efficacy Grant Awardees, San Diego, CA, August 2013.
23. **Frantz, K.J.** (2014) “Funding for our Future” Presentation in Panel entitled “Neuroscience is Looking for a Few Good Brains: Funding Research and Training in Difficult Times”. Panel Organizer and Presenter at Winter Conference on Brain Research, Steamboat Springs, CO, January 2014.

LABORATORY RESEARCH - POSITION

As above, members of the Frantz Laboratory test hypotheses related to adolescent vulnerability to drugs of abuse (e.g. psychomotor stimulants and opiates), using the intravenous drug self-administration model in rats.

LABORATORY RESEARCH - PUBLICATIONS for PEER-REVIEWED JOURNALS

1. **Frantz, K. J.** & Van Hartesveldt, C. (1994) Sulpiride antagonizes the biphasic locomotor effects of quinpirole in weanling rats. *Psychopharmacology* 119(3): 299-304.
2. **Frantz, K. J.**, Babcock, D. M. & Van Hartesveldt, C. (1996) The locomotor effects of a putative dopamine D3 receptor agonist in weanling rats. *European Journal of Pharmacology*, 302: 1-6.
3. Gendreau, P. L., Petitto, J. M., Schnauss, R., **Frantz, K. J.**, Van Hartesveldt, C., Gariépy, J.-L. & Lewis, M. H. (1997) Effects of the putative D3 dopamine receptor antagonist PNU-99194A on motor behavior and emotional reactivity in C57BL/6J mice. *European Journal of Pharmacology*, 337: 147-155.
4. **Frantz, K. J.** & Van Hartesveldt, C. (1999) The locomotor effects of MK801 in the nucleus accumbens of developing and adult rats. *European Journal of Pharmacology*, 368: 125-135.
5. **Frantz, K. J.** & Van Hartesveldt, C. (1999) Locomotion elicited by MK801 in developing and adult rats: temporal, environmental, and gender effects. *European Journal of Pharmacology*, 369: 145-157.
6. **Frantz, K. J.** & Van Hartesveldt, C. (1999) The locomotor effects of quinpirole in rats depend on age and gender. *Pharmacology, Biochemistry and Behavior*, 64(4): 821-826.
7. **Frantz, K. J.**, Hansson, K. J., Stouffer, D. G., Parsons, L. H. (2002) 5-HT₆ receptor antagonism potentiates the behavioral and neurochemical effects of amphetamine but not cocaine. *Neuropharmacology*, 42: 170-180.
8. **Frantz, K. J.**, Harte, M., Ungerstedt, U. and O'Connor, W.T. (2002) A dual probe characterization of dialysate amino acid levels in the medial prefrontal cortex and ventral tegmental area of the awake freely moving rat. *Journal of Neuroscience Methods*, 119: 109-119.
9. Smith, A., Watson, C.J., **Frantz, K.J.**, Eppler, F., Kennedy, R.T., Peris, J. (2004) Differential increase in taurine levels by low-dose ethanol in the dorsal and ventral striatum revealed by microdialysis with on-line capillary electrophoresis. *Alcoholism: Clinical and Experimental Research*, 28(7): 1028-38.
10. **Frantz, K. J.**, O'Dell, L. E. & Parsons, L. H. (2007) Behavioral and neurochemical responses to cocaine in periadolescent and adult rats. *Neuropsychopharmacology*, 32(3): 625-637.
11. Shahbazi, M., Moffett, A., Williams, B., **Frantz, K.J.** (2008) Age- and Sex-Dependent Amphetamine Self-Administration in Rats. *Psychopharmacology*, 196(1): 71-81.
12. Doherty, J.M., Ogbomwan, Y., Williams, B.F., **Frantz, K.J.** (2009) Age-dependent morphine intake and cue-induced reinstatement, but not escalation in intake, by adolescent and adult male rats. *Pharmacology, Biochemistry and Behavior*, 92(1): 164-172.
13. Li, C., **Frantz, K.J.** (2009) Attenuated incubation of cocaine seeking in male rats trained to self-administer cocaine during adolescence. *Psychopharmacology*, 204(4): 725-733.
14. Li, C., **Frantz, K.J.** (2010) Time-dependent increases in cue-induced reinstatement of sucrose seeking after sucrose self-administration in adolescence. *Behavioral Brain Research*, 213: 109-112.
15. Bruggeman, E.C., Li, C., Ross, A.P., Doherty, J.M., Williams, B.F., **Frantz, K.J.**, Parent, M.B. (2011) A high fructose diet does not affect amphetamine self-administration or spatial water maze learning and memory in female rats. *Pharmacology, Biochemistry and Behavior* 99: 356-364.

16. Doherty, J.M., **Frantz, K.J.** (2012) Heroin self-administration and reinstatement of heroin-seeking in adolescent vs. adult male rats. *Psychopharmacology*, 219(3): 763-773.
17. Doherty, J.M., **Frantz, K.J.** (2013) Attenuated effects of experimenter-administered heroin in adolescent vs. adult male rats: physical withdrawal and locomotor sensitization. *Psychopharmacology*, 225(3): 595-604.
18. Doherty, J.M., Cooke, B.M., **Frantz, K.J.** (2013) Attenuated Fos immunoreactivity in prelimbic and infralimbic medial prefrontal cortex during heroin-seeking behavior in adolescent vs. adult male rats. *Neuropsychopharmacology* 38(3): 446-454.
19. Li, C., **Frantz, K.J.** (under revision) Effects of environment on reinstatement of cocaine-seeking after adolescent- vs. adult-onset of cocaine self-administration. *Psychopharmacology*

Publications in Preparation

20. Li C, McGinty JF, **Frantz KJ** (in preparation) Cocaine-seeking in adolescent vs. adult male rats correlates with differential expression of plasticity-related genes.

LABORATORY RESEARCH - INVITED CHAPTERS and REVIEWS

1. Kirstein, C., White, A., **Frantz, K.J.** (2004) Introduction to Short Papers. *Annals of the NYAS*, 1021: 323.
2. **Frantz, K.J.**, Koob, G.F. (2005) The Neurobiology of Addiction. In Coombs, R.H. (Ed.) *Addiction Counseling Review*. Lawrence Earlbaum Associated, Inc. Mahwah, NJ.
3. Krebs, D.L., **Frantz, K.J.**, Parent, M.B. (2007) In vivo microdialysis: a method for sampling extracellular fluid in discrete brain regions. In Lajtha, A. (Ed.) *Handbook of Neurochemistry and Molecular Neurobiology*, Baker, G., Dunn, S., Holt, A. (Eds.) *Practical Neurochemistry (Methods) Vol. 18*. Plenum Publishing Corp, NY, pp. 221-256.
4. Ernst, M., Daniele, T., **Frantz, K.** (2011) New perspectives on adolescent motivated behavior: attention and conditioning. *Developmental Cognitive Neuroscience*, 1(4): 377-389.

LABORATORY RESEARCH - SELECTED PUBLISHED ABSTRACTS

1. **Frantz, K. J.**, Babcock, D. M. & Van Hartesveldt, C. (1994) The locomotor effects of a putative dopamine D3 receptor agonist in weanling rats. *Society for Neuroscience Abstracts 20*: 820.
2. Frantz, K. J. & Van Hartesveldt, C. (1995) Locomotor effects of quinpirole in the nucleus accumbens of developing rat pups. *Society for Neuroscience Abstracts 21*: 1689.
3. **Frantz, K. J.**, O'Connor, W. T. & Ungerstedt, U. (1996) Evidence for a non-dopaminergic behavioural hyper-reactivity associated with TTX perfusion in the medial prefrontal cortex of the rat. *Behavioural Pharmacology 7 Supp 1*: 39.
4. **Frantz, K. J.**, Ungerstedt, U. & O'Connor, W. T. (1996) Aspartate and glutamate release in the ventral tegmental area increases biphasically following N-methyl-D-aspartate perfusion in rat prefrontal cortex. A dual microdialysis probe study in the awake rat. *Society for Neuroscience Abstracts 22*: 1533.
5. **Frantz, K. J.**, Ungerstedt, U. and O'Connor, W. T. (1997) The effects of N-methyl-D-aspartate receptor activation in the rat prefrontal cortex on serotonin and GABA transmission. A microdialysis study in the awake rat. *Society for Neuroscience Abstracts 23*: 1229.
6. Gendreau, P. L., Petitto, J. M., Schnauss, R., **Frantz, K. J.**, Van Hartesveldt, C., Gariépy, J.-L. & Lewis, M. H. (1997) Effects of the putative D3 dopamine receptor antagonist U-99194A on emotional reactivity and motor behavior in C57BL/6J mice. *Society for Neuroscience Abstracts 23*: 1856.
7. **Frantz, K. J.** & Parsons, L. H. (2000) Acquisition of cocaine self-administration in periadolescent rats. *Society for Neuroscience Abstracts 26*: 269.
8. **Frantz, K. J.**, Hansson, K. J., Stouffer, D. G., Parsons, L. H. (2000) A 5-HT₆ receptor antagonist increases the reinforcing, locomotor, and neurochemical effects of amphetamine but not cocaine. *Society for Neuroscience Abstracts 26*: 1824.
9. **Frantz, K.**, Eppler, B., Smith, A., Gonzales, R., & Peris, J. (2001) Ethanol exposure leads to increased taurine in the striatum of rats. *Drug and Alcohol Dependence 63(S1)*: S50.
10. **Frantz, K. J.** & Parsons, L. H. (2001) Effects of MDMA on acquisition of cocaine self-administration in periadolescent and adult rats. *Society for Neuroscience Abstracts 27*.
11. Simmons, D.L., Hoppenot, R., **Frantz, K.**, Walker, J., Feinberg, A. Edwards, S. & Self, D.W. (2002) Long-term changes in nucleus accumbens gene expression following chronic cocaine self-administration. Program No. 500.14. *2002 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2002. Online. *European Society for Biochemical Research on Alcoholism 9th Congress*.

12. Simmons, D.L., Smagula, C., Hoppenot, R., **Frantz, K.**, Walker, J., Feinberg, A. & Self, D.W. (2002) Gene expression and cocaine seeking in prolonged abstinence: modulation by withdrawal time and extinction training. *European Society for Biochemical Research on Alcoholism 9th Congress*.
13. Shahbazi, M., McQueen, A., **Frantz, K.** (2005) Acquisition of amphetamine self-administration in periadolescent and adult rats. *Drug and Alcohol Dependence*.
14. Shahbazi, M., Moffett, A., Williams, B., **Frantz, K.** (2005) Acquisition of amphetamine self-administration in periadolescent and adult rats. *2005 Abstract Viewer/Itinerary Planner*. Society for Neuroscience.
15. Doherty, J., Moffett, A., Ogbonmwan, Y., Whyte, A., Williams, B., **Frantz, K.** (2006) Morphine self-administration in adolescent versus adult male rats. *2006 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Atlanta.
16. Whyte, A., Moffett, A., Williams, B., Shahbazi, M., O'Farrell, L., **Frantz, K.** (2006) Evans blue dye as a quantitative measure of catheter patency. *2006 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Atlanta.
17. Bech, T., Lindsly, C., Powers, C., Edwards, D., **Frantz, K.** (2006) Sex differences in amphetamine conditioned place preference in crayfish. *2006 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Atlanta.
18. Li, C., Williams, B., Doherty, J., Ogbonmwan, Y., **Frantz, K.** (2007) Concentration and volume do not influence cocaine self-administration in adolescent or adult rats. *2007 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, San Diego.
19. Ogbonmwan, Y., Doherty, J., Williams, B., Waldron, N., **Frantz, K.** (2007) Escalation and reinstatement of morphine self-administration in periadolescent vs. adults male rats. *2007 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, SD.
20. Doherty, J., Li, C., Ogbonmwan, Y., Williams, B., **Frantz, K.** (2009) Reinstatement of Drug-Seeking Behavior in Adolescent and Adult Male Rats. Winter Conference on Brain Research, Copper, CO.
21. Doherty, J.M., **Frantz, K.J.** (2009) Self-administration of heroin and incubation of heroin-seeking in adolescent vs. adult rats. *2009 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Chicago.
22. **Frantz, K.J.**, Lee, A., Doherty, J.M., Li, C., Williams, B., Ross, A., Bruggeman, E., Parent, M. (2009) A high fructose diet does not affect amphetamine self-administration in female rats. *2009 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Chicago.
23. Li, C., Doherty, J.M., Lee, A., **Frantz, K.J.** (2009) No age differences in cue-induced reinstatement of sucrose-seeking in male rats. *2009 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Chicago.
24. Doherty JM, **Frantz, KJ** (2010) Self-administration of heroin and incubation of heroin-seeking in adolescent vs. adult rats. Winter Conference on Brain Research, Breckenridge, CO.
25. Doherty, JM, Dunigan, P, Li, C, Lee, A, Williams, B, **Frantz, K** (2010) Self-administration of heroin and incubation of heroin-seeking in adolescent vs adult male rats. Joint South East Nerve Net and Georgia/South Carolina Neuroscience Consortium meeting, Atlanta, GA.
26. Doherty JM, Dunigan P, Lee A, Williams B, **Frantz KJ** (2010) Attenuated effects of experimenter-administered heroin in periadolescent vs. adult male rats: locomotor sensitization and somatic signs of withdrawal. *2010 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, San Diego.
27. Li C, **Frantz KJ** (2011) Age differences in effects of environmental manipulations on cue-induced reinstatement of cocaine-seeking in male rats. Winter Conference on Brain Research, Keystone.
28. Doherty JM, **Frantz, KJ** (2011) Attenuated effects of experimenter-administered heroin in adolescent vs. adult male rats: Locomotor sensitization and somatic signs of withdrawal. Winter Conference on Brain Research, Keystone.
29. Li C, McGinty JF, **Frantz KJ** (2011) Cocaine-seeking in adolescent vs. adult male rats correlates with differential expression of plasticity-related genes. *2011 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Washington DC.
30. White, A.C., Li C, McGinty JF, **Frantz KJ** (2014) Arc and BDNF expression after cocaine self-administration or cue-induced reinstatement of cocaine-seeking in adolescent and adult male rats. *2014 Abstract Viewer/Itinerary Planner*. Society for Neuroscience, Washington DC.

LABORATORY RESEARCH - SEMINAR PRESENTATIONS

1. **Frantz, K.J.**, (2002) Psychostimulants in Adolescents. Neurobiology & Behavior Annual Retreat at Indian Creek Lodge, Atlanta, October 2002.
2. **Frantz, K.J.**, Kuczenski, R., Steiner, H., Carlezon, W. (2003) Changing Their Minds: Enduring Effects of Early Stimulant Exposure. Winter Conference on Brain Research, Aspen, CO, January 2003.
3. **Frantz, K.J.** (2003) Psychostimulants in adolescent rats: What do we know and how do we know it? Georgia State University Research Seminar, Atlanta, September 2003.
4. **Frantz, K.J.** (2004) "Adolescent Drug Use: Animal Models" Spelman College Bridges to Baccalaureate program for pre-college or transitional undergraduate underrepresented minority female students, June 2004.

5. **Frantz, K.J.** (2005) “The Agony of Ecstasy and Other Tales of Teens” Georgia State University Research Seminar, Atlanta, February 2005.
6. **Frantz, K.J.** (2005) “Teen Drug Abuse and Prevention via Science Education and Laboratory Research” Georgia State University Careers Seminar, Atlanta, September 2005.
7. **Frantz, K.J.** (2006) “Drug Self-Administration in Adolescent Rats: Implications for Future Research” Harvard University School of Medicine at McLean Hospital, Belmont, MA, June 2006.
8. **Frantz, K.J.** (2007) “Two Routes to Research: Bench and Education Science at GSU” Georgia State University Graduate Seminar, Atlanta, July 2007.
9. **Frantz, K.J.** (2008) “Perspectives on Vulnerability to Drugs among Adolescents” Georgia-South Carolina Neuroscience Consortium, Columbia, SC, March 2008.
10. **Frantz, K.J.** (2009) “The Fountain of Youth: Is Adolescent Resistance Part of the Story?” Seminar Organizer & Speaker “Adolescent Resistance to Long-Term Drug Effects” Speaker; Winter Conference on Brain Research, Copper, CO, Jan 2009.
11. **Frantz, K.J.** (2009) “Adolescent (in)Vulnerability” Georgia State University Brains & Behavior Seed Day, Atl, Aug 2009.
12. **Frantz, K.J.** (2009) “Adolescent (in)Vulnerability: Age Differences in Drug Intake and Relapse in Rats” Clayton State University, Jonesboro, GA, September 2009.
13. **Frantz, K.J.** (2010) “Last but not Least: Delayed Onset of Reward-Related Frontal Cortical Function in Adolescence” Invited Presenter with individual title: Adolescent (in)Vulnerability: An update on age differences in drug self-administration and reinstatement in male rats” at the Winter Conference on Brain Research, Breckenridge, CO, January 2010.
14. **Frantz, K.J.** (2011) “Drug sensitivity in adolescence: Vulnerability vs. resilience” Invited Presenter with individual title: “Behavioral Mechanisms of Adolescent (in)Vulnerability”, Winter Conference on Brain Research, Keystone, CO, Jan 2011.
15. **Frantz, K.J.** (2011) “Adolescent Drug Vulnerability: A Period of Vulnerability or Resistance?” Invited Presenter with individual title: “Mechanisms of Adolescent (in)Vulnerability” at the American College on Neuropsychopharmacology, Waikaloa Village, HI, December 2011.
16. **Frantz, K.J.** (2013) “Perishable Potentials: Neural substrates of sex-specific risk for mental disorders during adolescence” Invited Presenter with individual title: “Adolescent Reward and Aversion” Winter Conference on Brain Research, Breckenridge, CO, Jan 2013.
17. **Frantz, K.J.** (2015) “Sex-Specific Effects of Adolescent Drugs and Stressors on Neural, Metabolic, Immune, and Behavioral Outcomes” Panel Co-Chair (with G. Neigh, Emory), with individual presentation title: “Adolescent (in)Vulnerability to Enduring Effects of Drugs of Abuse” American Society for Neurochemistry Annual Meeting, Atlanta, Mar 2015.

GRANT SUPPORT (Science Education & Laboratory Research)

Grant Support Pending

01/01/2016-12/31/2021

National Institute for General Medical Sciences, R25GM11353206 for ~\$1,500,000 over 5 years

IMSD Atlanta: Promoting a Diverse Workforce in Atlanta

Would fund education and training for undergraduates and graduate students, as well as faculty development.

Role: Co-PI with De Vries (Co-PI)

Ongoing Program & Research Grant Support

9/2013-8/2015

National Science Foundation WIDER - Planning Grant

Catalyzing Transformative Change in the STEM Disciplines at Georgia State University

The goal of this effort is to enhance the educational experience of STEM majors at Georgia State University (GSU) by encouraging the faculty to make evidence-based changes in their pedagogy.

Role: Co-Investigator with Dabney Dixon (PI)

5/2013-4/2018

National Institute on Mental Health, 1R25MH095735-01A1, \$543,240 over 5 years

ION/Teach: The Institute On Neuroscience for High School Students and Teachers

Intensive summer research program for high school students and teachers, including evaluation.

Role: PI with Goode, De Vries, Maney, & Zola (now Smith)

9/2010-8/2015

National Institute for General Medical Sciences, 1R25GM097636 for ~ \$1,700,000 over 5 years

BP-ENDURE-Atlanta: Engaging Undergraduates in Neuroscience Research

Funds two-year undergraduate research assistantships, including summer travel to a partner programs nationwide.

Role: PI with Brakke, Buffalo, Goode, Hopkins, Larimore, Smith, & McKlin (external evaluator).

Completed Program & Research Grant Support

9/2008-8/2012, *no-cost extension through 8/2013*

National Institute for General Medical Sciences, 1RO1GM085391-01 for \$1,156,000 over 4 years

Collaborative Research for Novice Undergraduates

Funds 4 year analysis of program, including design and validation of quantitative and qualitative assessment tools.

Role: PI with Britner, Carruth, DeHaan, Demetrikopoulos, Falkenberg, Gagne, Pecore, & Williams

5/2012-8/2012

The Conlee Family Supporting Foundation Program Grant, \$3,000 over 1 year

“Institute On Neuroscience”

Provides supplementary funding for intensive research program for outstanding high school students.

Role: PI

7/2011-6/2012

Georgia State University Brains & Behavior Seed Grant, \$30,000 over 1 year

Adolescent Drug Vulnerability: Impact of Stress

Role: PI

5/2011-8/2011

The Conlee Family Supporting Foundation Program Grant, \$7,500 over 1 year

“Institute On Neuroscience”

Funded intensive research program for outstanding high school students.

Role: PI

4/2009-4/2011

Medical University of South Carolina Pilot Grant, \$25,000 over 2 years

Cocaine-Seeking in Adolescent vs. Adult Male Rats Correlates with Plasticity-Related Transcription Factors

Role: Co-PI with Jacqueline McGinty, Ph.D.

7/2009-6/2010

Georgia State University Scholarly Activity Grant, \$15,000 over 1 year

Cocaine-Seeking in Adolescent vs. Adult Rats Correlates with Differential Expression of Neuroplasticity Genes

Role: PI

7/2009-6/2010

Georgia State University Brains & Behavior Seed Grant, \$30,000 over 1 year

Adolescent Drug Experience: Impact on Behavior and Dendrites

Role: Co-PI with Bradley Cooke, Ph.D.

7/2005-7/2009

Center for Behavioral Neuroscience Venture Grant, \$30,000 over 4 years

Retention in Research of Women and Minorities

Funds 4-year follow-up analysis of maintained interest and participation in science by participants in 2005 summer research experience program.

Role: PI

1/2008-12/2008

The Dana Foundation K-12 Education Program Grant, \$20,000 over 1 year

“Institute On Neuroscience”

Funded intensive research program for outstanding high school students.

Role: PI

6/2008

Writing Across the Curriculum Faculty Workshop Grant, \$2,000 over 1 summer

“Neuroscience Exposition Internship Course”

Funded participation in faculty workshop to improve writing engagement by students.

Role: PI/Independent Participant

2/2007-1/2008

American College on Neuropharmacology (ACNP) Public Outreach Grant, \$5,000 over 1 year

Initiatives to Maximize Formal and Informal Science Education for Middle School Students

Funded one-year study on effects of pre-field trip visits to middle school classrooms on attention during a field trip.

Role: PI with Co-Investigators L. Howell, M. Kuhar, and J. Pecore, Ph.D.s

1/2006-6/2007

Center for Behavioral Neuroscience Venture Grant, \$27,636 over 1 year

Nucleus Accumbens Efferents in Reward and Reinforcement

Funded development of intracranial drug self-administration paradigm for use in comparing brain mechanisms of reward and reinforcement across food, drug, and electrical stimulation reward paradigms.

Role: Co-PI with D. Neill, Ph.D. (Emory University, Department of Psychology)

7/2006-6/2007

Georgia State University Advancement of Women Faculty Mentoring Grant, \$6,000 over 1 year

The Impact of Age and Sex on Morphine Self-Administration

Funded revisions of RO1, including pilot studies on sex differences in acquisition of morphine self-administration.

Role: Sponsored PI with mentor M. Brinton, Ph.D.

4/2005-7/2006

University of California, Davis / NSF Science & Technology Center Education Grant, \$149,000 over 1.5 years

Routes to Research for Women and Minorities: A Pilot Structured Research Experience for Multi-STC Testing

Funded one-year program on effectiveness of summer programs for undergraduate research experiences.

Role: PI

7/2005-7/2006

Center for Behavioral Neuroscience Venture Grant, \$30,000 over 1 year

Georgia Aquarium Education / Research Project

Funded development of curriculum for informal science research by K-12 students, teachers, and general public at new Georgia Aquarium.

Role: Co-PI with P. Katz, Ph.D.

4/2005-4/2006

National Institute on Drug Abuse B/START, 1 RO3 DA020110-01 for \$79,000 over 1 year

Sex Differences in Adolescent Vulnerability to Morphine.

Funded pilot studies on sex differences in acquisition of morphine self-administration in adolescent male vs. female rats after neonatal injury.

Role: PI

10/2004-10/2005

Program in Brains and Behaviors Seed Grant, \$30,000 over 1 year

Sexual Dimorphism in the Long-Term Effects of Neonatal Stress on Vulnerability to Opiates.

Funds pilot studies on sex differences in acquisition of morphine self-administration in adult male vs. female rats after neonatal injury.

Role: Co-PI with A. Murphy, Ph.D.

7/2004-7/2005

Research Initiation Grant from Georgia State University, \$11,000 over 1 year

Neonatal Injury Increases Vulnerability to Morphine Reinforcement in Rats.

Funded pilot studies on acquisition of morphine self-administration in male rats after neonatal injury.

Role: Mentored PI (Mentors: T. Bartness and A. Murphy, Ph.D.s)

6/2003-6/2004

Research Equipment Grant, \$26,218 in 1 installment.

Georgia State University

Instrumentation for the Molecular Analysis of Sex Differences in Psychomotor Stimulant Effects in Adult Rats.

Purchased equipment to compare male and female responses to stimulants using gene expression analyses.
Role: Co-PI (with L. Carruth, Ph.D.)

6/1999-7/2002

NIDA Individual National Research Service Award, 5F32 DA05950 for \$85,760 over 3 years
Neurobehavioral Effects of MDMA in Periadolescent and Adult Rats.

Compared periadolescent and adult responses to psychomotor stimulants (cocaine and 3,4-methylenedioxymethamphetamine, MDMA, ecstasy).

Role: Sponsored PI (with Co-Sponsors George F. Koob and Loren H. Parsons, Ph.D.s)

8/1995-6/1996

Fulbright Grant, \$25,000 over 10 months (with 2 month extension from Ungerstedt).

Sponsored graduate research in Physiology & Pharmacology at the Karolinska Institute in Stockholm, Sweden.

Role: Sponsored PI (with mentors Urban Ungerstedt and William T. O'Connor, Ph.D.s)

SMALL GRANTS AND AWARDS

- 1990 The National Science Foundation and Pennsylvania State University Summer Research Fellowship
- 1992-96 Grinter Fellowship
- 1993 Grass Foundation Travel Grant
- 1993-95 The Center for Neurobiological Sciences Traineeships
- 1994 The Levitt Award for Outstanding Graduate Study in Psychobiology
- 1994&96 Graduate Student Council Travel Grants
- 1996-98 The Center for Neurobiological Sciences Traineeships
- 1996 European Behavioural Pharmacology Society Student Bursary
- 1996 College of Liberal Arts and Sciences Travel Grant
- 1997 International Behavioral Neuroscience Society Student Travel Bursary
- 1997 AccuScan Travel Fellowship
- 2000 The Scripps Research Institute Society of Fellows Travel Award
- 2000 The Serotonin Club Travel Award
- 2001 National Institute on Drug Abuse (NIDA) Director’s Travel Award
- 2003 Survival Skills and Ethics Program, University of Pittsburgh (\$2,000): “First Annual Professional Conduct & Community Outreach Workshops at the International Behavioral Neuroscience Society”
- 2003 GSU Writing Across the Curriculum Course Development Grant (\$2,000): “Writing Mentor for Neurobiology Laboratory Course”
- 2004 Society for Neuroscience Local Chapters Grant (\$2,000): “Building Brain Boxes: An Educational Endeavor for Middle School Teachers and Students...”, with M. Demetrikopoulos and J. Redmond.
- 2006 MedAssociates Summer Workshop Scholarship: MedPC Programming and Intravenous Catheters.
- 2006 Society for Neuro Local Chapters Grant (\$2,000): “The Brain Balloon Project”, with M. Demetrikopoulos.
- 2007 Cold Spring Harbor Course Scholarship: Cell Biology of Addiction.
- 2007 Georgia State University College of Arts and Sciences Outstanding Junior Faculty Award
- 2007 Society for Neuroscience Next Generation Science Educator Award
- 2011 American College on Neuropsychopharmacology Travel Bursary
- 2013 Georgia State University Faculty Award for Undergraduate Research

INSTRUCTION, INCLUDING ADVISING**TEACHING & RELATED EXPERIENCE****University of Florida, Department of Psychology**

- 1995&1997 **Seminar Participant:** The University Center for Excellence in Teaching
- 1997 **Guest Lecturer:** Merle Meyer’s Physiological Psychology Laboratory
- 2000 **Guest Lecturer:** Neil Rowland's Neurochemistry: Drugs of Abuse from Culture to Molecule
- 1992 **Teaching Assistant:** Physiological Psychology Lecture Course
- 1994 **Teaching Assistant:** Physiological Psychology Laboratory Course
- 1997 **Instructor:** Introductory Physiological Psychology: 65 students, 16 weeks (wk)

The University of California at San Diego, Department of Psychology

- 1999 **Guest Lecturer:** George Koob’s Drugs, Addiction and Mental Disorders: Caffeine
- 1999 **Instructor:** Social Psychology: ~250 students, 10 wk
- 2000 **Instructor:** Adolescence: ~75 students, 6 wk

Georgia State University, Department of Biology and Neuroscience Institute

- 2002-2010 **Instructor:** Fundamentals of Biology II, ~35-100 students, 16 wk
- 2003-2007 **Instructor:** Introduction to Neurobiology & Behavior, ~18-25 students, 16 wk
- 2003 **Instructor:** Career Seminar in Biology, ~90-115 students, 16 wk
- 2005&06 **Instructor:** Grad Seminars on Brain Mechanisms of Reward & Reinforcement ~10 students, 16 wk
- 2006-2010 **Instructor:** Neuroscience Expo Internship Course, 40 students, 16 wk
- 2008-2013 **Instructor:** Neurobiology, 40 students, 16 wk
- 2012-present **Instructor:** Principles of Neuroscience, 25 students, 15 wk
- 2013-present **Instructor:** Brain Mechanisms of Reward & Reinforcement (CTW), 15 students, 15 wk

SUPERVISORY RESPONSIBILITIES, resulting in dissertations or theses

- 1993-94 Deborah Babcock, University of Florida Undergraduate Honors Thesis, Publication Co-Author
- 1999 K. Jonas Hansson, Karolinska Institute Master's Thesis, Publication Co-Author
- 2003-07 Yvonne Ogbonmwan, GSU Undergraduate Honors Thesis, Publication Co-Author, BS with Honors Awarded Fall 2007
- 2004-05 Mahin Shahbazi, GSU Graduate Research Assistant, Publication Co-Author, Master's Degree Awarded Fall 2005
- 2007-08 Lauren Payne, GSU Graduate Research Assistant, Master's Degree Awarded Summer 2008
- 2005-11 James Doherty, GSU Graduate Research Assistant, Co-Author on five publications to date, PhD Awarded Summer 2011
- 2005-11 Chen Li, GSU Graduate Research Assistant, Co-Author on three publications to date, PhD Awarded Summer 2011
- 2008-12 Adria Lee, ION High School Summer Program Scholar, GSU Undergraduate Honors Thesis, BS with Honors Awarded, Spring 2012
- 2013- Alexandria White, GSU Undergraduate Honors Thesis, expected December 2015

ADDITIONAL SUPERVISORY RESPONSIBILITIES

- 1997-98 Nicole Murrey, University of Florida Undergraduate Research Assistant
- 2000 Carmen Carrillo, University of California-San Diego Undergraduate Research Assistant
- 2001 Ashley Rowinski, University of California-San Diego Undergraduate Research Assistant
- 2002-03 Torrieona Everhart, GSU Undergraduate Presidential Scholar
- 2002-03 Prashanthi Menon, GSU Graduate Research Assistant
- 2002-03 Ajay Kanwar, GSU Graduate Research Assistant
- 2003 Savanna St. Clair, ION High School Summer Program Scholar
- 2003-04 Afshan Ali, GSU Post-Baccalaureate Research Volunteer
- 2003-04 Lauren Minor, Spelman College Undergraduate Research Assistant
- 2003-04 Kelly Smith, GSU Graduate Research Assistant
- 2003-present Bonnie Williams, GSU Senior Technician
- 2004-06 Angus Whyte, GSU Undergraduate Research Assistant
- 2004 Yeou-Rong Jih, ION High School Program Scholar
- 2004 Amanda Pollett, GSU Undergraduate Research Assistant and McNair Program Scholar
- 2004-05 Geary Smith, GSU Graduate Trainee on rotation
- 2004-05 Stephanie Gutzler, GSU Graduate Trainee on rotation
- 2004-07 Aimee McQueen, GSU Laboratory Technician
- 2005-06 Brian Lovell, CBN Education Intern
- 2005-12 Liz Weaver, Education Intern, Neuroscience Education Specialist (BRAIN Program Coordinator)
- 2005-06 Tara Bech, BRAIN Program Research Continuation Grantee
- 2005-06 Casie Lindsly, BRAIN Program Research Continuation Grantee
- 2005-06 Christy Powers, BRAIN Program Research Continuation Grantee
- 2006 Keisha Butler, BRAIN Undergraduate Summer Research Fellow
- 2006 Shereka Banton, ION High School Summer Program Scholar
- 2006-08 Nathan Waldron, GSU Undergraduate Presidential Scholar
- 2007 Aaron Ajlen, GSU Undergraduate Assistant
- 2007-08 Laila Majidi, CBN Education Intern
- 2007 Sasha Nicolaevskaya, ION High School Summer Program Scholar
- 2008-09 Bethany West, CBN Education Intern
- 2008 Khristian Pettigrew, GSU Undergraduate Research Assistant
- 2008-09 Eva Avino, GSU Undergraduate Research Assistant
- 2008-11 Evan Werstler, CBN Education Intern
- 2008-11 Adria Lee, ION High School Summer Program Scholar,
- 2009-10 Patrick Dunigan, GSU Undergraduate Research Assistant
- 2009 Boru Wang, ION High School Summer Program Scholar
- 2010 Rachel Mirpour, CBN Education Intern
- 2011-12 Laurie Murrah-Hanson, M.P.A., Administrative Specialist (NET/work Program Coordinator)
- 2011-13 John Polites, GSU Undergraduate Research Assistant

- 2012-13 Asti Jackson, GSU Undergraduate Research Assistant and McNair Scholar
- 2013-2014 Emily Hardy, Administrative Specialist (NET/work and ION Program Coordinator)
- 2013-present Alexandria White, GSU Undergraduate Research Assistant
- 2013-present Rapheal Williams, GSU Undergraduate Research Assistant
- 2013-present Tierra Sanders, GSU Undergraduate Research Assistant
- 2013-present Maggie Hanley, GSU Graduate Research Assistant
- 2014-present James Duffy, GSU Undergraduate Research Assistant
- 2014-present Cheri Kersey, Ph.D., Special Programs Coordinator
- 2015-present Brandee Winstead, Administrative Specialist (NET/work and ION Program Coordinator)
- 2003-present Annual advisor for all hired and volunteer instructors for ION high school summer research program, BRAIN undergraduate summer research program, NET/work assistantship, and Brains Rule! Neuroscience Expo.

SERVICE

CONFERENCE COORDINATION

- 2003 **“Adolescent Development: Challenges and Opportunities” Conference Poster Coordinator**, conference hosted by The New York Academy of Sciences, New York, October 2003.
- 2005 **“Best Practices in Science Education” Conference Organizer & Host** for 2-day conference with 100 attendees, 10 invited speakers, and ~\$10,000 budget. Held at Yerkes National Primate Research Center, Atlanta, October 2005.
- 2008-2009 **“Neuroscience in Education” Summit Steering Committee & Host**, the Presidential Initiative of T. Carew, Ph.D., as President of the Society for Neuroscience (2008-2009), hosted at the University of California, Irvine, June 2009.
- 2015- **Program Chair, Winter Conference on Brain Research**

MEMBERSHIP & POSITIONS in SCIENTIFIC SOCIETIES & UNIVERSITY COMMITTEES

- 1994- present **Society for Neuroscience**: Public Education and Communications Committee member ('07-'10);
- 1995-2004 **International Behavioral Neuroscience Society**: symposium organizer in 1998, Education & Training Committee member ('01-'03, Chair '02-'03)
- 2000-2007 **The New York Academy of Science**
- 2000-2001 **The Serotonin Club**
- 2002- present **Winter Conference on Brain Research (WCBR)**, Panel Organizer (2002, 2009, 2014); Board of Directors (2011-present); School Visits Chair (2012-2014); Program Chair Elect (2014-present)
- 2002-present **The Center for Behavioral Neuroscience**: Undergraduate Education Committee Co-Chair ('02-'06), Pre-College Education Committee Member ('02-'10), Director of Education ('12-present)
- 2002-2008 **National Association of Biology Teachers (NABT)**
- 2002-2008 **National Science Teachers Association (NSTA)**
- 2006-2011 **Georgia State University Collegiate Neuroscience Society (CNS)**, Founding Faculty Advisor
- 2008-2010 **Georgia State University Institutional Animal Care and Use Committee (IACUC)**
- 2009- **Georgia State University STEM Initiatives Committee**
- 2009-2011 **Green Technologies Academy Advisory Board, DeKalb Technical College**, Secretary 2009-2010
- 2012- **Georgia State University Neuroscience Institute Undergraduate Committee**
- 2012- **Georgia State University Honors College Scholarship Interview Team**
- 2012- **Georgia State University Goldwater Scholarship Faculty Liaison**
- 2012- **Georgia State University Committee for the Atlanta Science Festival**, Chairman

AD HOC REVIEWER for PROFESSIONAL JOURNALS

- Cell Biology Education – Life Sciences Education (CBE-LSE)
- Developmental Psychobiology
- European Journal of Pharmacology
- Journal of Neurochemistry
- Journal of Neuroscience
- Journal of Pharmacology and Experimental Therapeutics
- Neuropharmacology
- Neuropsychopharmacology
- Neuroscience
- Pharmacology, Biochemistry and Behavior

- Physiology & Behavior
- Psychopharmacology

REVIEWER for GRANTING AGENCIES

- Center for Behavioral Neuroscience Venture Grants Program
- City University of New York
- Georgia State University Brains & Behavior Seed Grants Program
- National Institute on Drug Abuse
- National Science Foundation
- State of Georgia, Department of Education