

Blake A. Hutsell
Curriculum Vitae

August 2016

CONTACT INFORMATION

Department of Psychology
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EDUCATIONAL HISTORY

2009	Ph.D., Psychology, Brain & Cognitive Sciences Southern Illinois University Dissertation Title: Mechanics of Stimulus & Response Generalization in Signal Detection & Psychophysics Advisor: Eric A. Jacobs, Ph.D.
2008	M.A., Psychology, Brain & Cognitive Sciences Southern Illinois University
2003	B.S., Psychology Arkansas State University

PROFESSIONAL POSITIONS

<i>Current position</i>	<i>Teaching Assistant Professor</i> Department of Psychology, East Carolina University
<i>2013-2016</i>	<i>Postdoctoral Scholar, Virginia</i> <i>Commonwealth University School of Medicine</i> Department of Pharmacology & Toxicology Supervisor: Mathew L. Banks, Pharm.D., Ph.D.
<i>2010-2013</i>	<i>Postdoctoral Fellow, Auburn University</i> <i>Department of Psychology</i> Behavioral Toxicology Laboratory Supervisor: M. Christopher Newland, Ph.D.

TEACHING EXPERIENCE

- 2016-2017 East Carolina University: *Research Methods in Psychology*, PSYC 2210 (Fall 2016, Spr 2017)
Psychology of Personality, PSYC 3300 (Fall 2016)
Sensation & Perception, PSYC 3312 (Spr 2017)
- 2010-2013 **Instructor** Auburn University
Research Methods in Psychology, PSYC 2140 (Spr 2010, Sum 2012)
Drugs & Behavior, PSYC 2530 (Fall 2010, Spr 2011)
Psychology of Learning, PSYC 3520 (Spr 2012)
Special Topics in Psychology: Science of Self-Control, PSYC 3970 (Fall 2012)
Psychopharmacology, PSYC 3650 (Spr 2013)
Directed Studies, PSYC 4930 (Spr 2012, Fall 2012)
- 2006-2009 **Instructor**, Southern Illinois University
Psychology of Learning, PSYC 309 (Spr 2006, Sum 2006, Fall 2006, Sum 2007)
Research Methods & Statistics, PSYC 211 (Spr 2008)
- Teaching Assistant**, Southern Illinois University
Psychology of Learning, PSYC 309 (Fall 2005, Spr 2007)
Research Methods & Statistics, PSYC 211 (Spr 2007, Sum 2008)
Introduction to Neuroscience, PSYC 302 (Sum 2008)

PEER-REVIEWED PUBLICATIONS

^ Undergraduate/*Graduate Student mentee

*Pope, D. A., *Boomhower, S. R., **Hutsell, B. A.**, ^Teixeira, K., & Newland, M. C., (2016). Chronic cocaine exposure in adolescence: effects on spatial discrimination reversal, delay discounting, and performance on fixed-ratio schedules in mice. *Neurobiology of Learning and Memory*, 130, 93-104. DOI:10.1016/j.nlm.2016.01.017

*McCallister, M., Zhang, T., Ramesh, A., Clark, R. S., Jules, G. E., Maguire, M., Rhoades, R., **Hutsell, B. A.**, Newland, M. C., & Hood, D. B. (2016). Revealing learning deficit phenotypes subsequent to in utero exposure to benzo(a)pyrene. *Toxicological Science*, 149(1), 42-54.

Hutsell, B. A., Baumann, M. H., Partilla, J. S., Banks, M. L., Glennon, R. A., Negus, S. S. (2015). Neurochemical and behavioral effects of cathinone and 4-methylcathinone stereoisomers in rats. *European Neuropsychopharmacology*. DOI:10.1016/j.euroneuro.2015.12.010

*Shen, A. N., *Pope, D. A., **Hutsell, B. A.**, & Newland, M. C. (2015). Spatial discrimination reversal and incremental repeated acquisition in adolescent and adult BALB/c mice. *Behavioural Processes*, 118, 59-70. doi: 10.1016/j.beproc.2015.06.005

Banks, M. L., **Hutsell, B. A.**, Schwientek, K. L., & Negus, S. S. (2015). Use of Preclinical Drug Vs. Food Choice Procedures to Evaluate Candidate Medications for Cocaine Addiction. *Current Treatment Options in Psychiatry*, 2(2), 136-150.

Hutsell, B. A., & Banks, M. L. (2015). Effects of environmental and pharmacological manipulations on a novel delayed nonmatching-to-sample 'working memory' procedure in unrestrained rhesus monkeys. *Journal of Neuroscience Methods*. doi: 10.1016/j.jneumeth.2015.05.009

*Pope, D. A., Newland, M. C., & **Hutsell, B. A.** (2015). Delay-specific stimuli and genotype interact to determine temporal discounting in a rapid-acquisition procedure. *Journal of the Experimental Analysis of Behavior*, 103(3), 450-471.

Kolanos, R., Partilla, J., Baumann, M, **Hutsell, B.**, Banks, M., Negus, S., Glennon, R. (2015). Stereoselective actions of methylenedioxypropylamphetamine (MDPV) to inhibit dopamine and norepinephrine transporters and facilitate intracranial self-stimulation in rats. *ACS Chemical Neuroscience*, 20, 6(5), 771-777. doi:10.1021/acschemneuro.5b00006

Banks, M. L., **Hutsell, B. A.**, Blough, B. E., Poklis, J. L., & Negus, S. S. (2015). Preclinical assessment of lisdexamfetamine as an agonist candidate medication for cocaine addiction: effects in rhesus monkeys trained to discriminate cocaine or to self-administer cocaine in a cocaine versus food choice procedure. *International Journal of Neuropsychopharmacology*, pyv009.

Hutsell, B. A., Cheng, K., Rice, K., Negus, S. S., & Banks, M. L. (2015). Effects of kappa-opioid receptor antagonist nor-binaltorphimine (nor-BNI) on cocaine vs. food choice and extended-access cocaine intake in rhesus monkeys. *Addiction Biology*, doi: 10.1111/adb.12206.

Hutsell, B. A., Negus, S. S., & Banks, M. L. (2015). A generalized matching law analysis of cocaine vs. food choice in rhesus monkeys: Effects of candidate agonist medications on sensitivity to reinforcement. *Drug & Alcohol Dependence*, 146, 52-60.

Hutsell, B. A., & Jacobs, E. A. (2013). Attention and psychophysics in the development of stimulus control. *Journal of the Experimental Analysis of Behavior*, 100, 282-300.

Bailey, J. M., **Hutsell, B. A.**, & Newland, M. C. (2013). Dietary nimodipine delays the onset of methylmercury neurotoxicity in mice. *Neurotoxicology*, 37, 108-147.

Hutsell, B. A. & Newland, M. C. (2013). A quantitative analysis of the effects of qualitatively different reinforcers on fixed-ratio responding in inbred strains of mice. *Neurobiology of Learning and Memory*, 101, 85-93.

Martens, K. M., Vonder Haar, C., **Hutsell, B. A.**, & Hoane, M. R. (2013). The dig task: a simple scent discrimination reveals deficits following frontal brain damage. *Journal of Visualized Experiments*, 71, e50033, doi:10.3791/50033.

Martens, K. M., Vonder Haar, C., **Hutsell, B. A.**, & Hoane, M. R. (2012). A discrimination task used as a novel method of testing decision-making behavior following traumatic brain injury. *Journal of Neurotrauma*, 29, 2505-2512.

Hutsell, B. A., & Jacobs, E. A. (2012). Rapid acquisition of bias in signal detection: dynamics of effective reinforcer allocation. *Journal of the Experimental Analysis of Behavior*, 97, 29-49.

MANUSCRIPTS UNDER REVIEW OR IN PREPARATION

*Pope, D. A., Newland, M. C., & **Hutsell, B. A.** (under review). Baseline-dependent effects of d-amphetamine on delay discounting: the roles of genotype and delay-specific stimuli.

SELECTED PRESENTATIONS

^Undergraduate/*Graduate Student mentee

Hutsell, B. A. (May, 2016) *Quantitative modeling in behavior analysis, Part 2: How?*. Invited Tutorial at the annual meeting of the Association for Behavior Analysis – International, Chicago, IL.

Banks, M. L. & Hutsell, B. A. (June, 2015) *Effects of remifentanyl as the consequent stimulus in a delayed nonmatching-to-sample procedure*. Paper presented at the 2015 meeting of the International Group Investigating Drugs as Reinforcers.

Killeen, P. R., Reilly, M. P., & Hutsell, B. A. (May, 2015). Panel Discussion: An introduction to mathematical principles of reinforcement. Professional development series event at the annual meeting of the Association for Behavior Analysis – International, San Antonio, TX.

Hutsell, B. (August, 2011) *The role of attending in the acquisition of conditional stimulus control*. Paper presented at the 119th Annual meeting of the American Psychological Association, Washington, DC.

Hutsell, B., & Jacobs, E. A. (May, 2009) *Rapid changes in bias in simple and complex temporal discrimination in rats*. Paper presented at the annual meeting of the Association for Behavior Analysis – International, Phoenix, AZ.

^Teixeira, K. M., Hutsell, B. A., & Newland, M. C. (May 2014). Adolescent cocaine exposure disrupts impulsivity, reversal learning, and cocaine sensitivity in adulthood. Poster presented at the annual meeting of the Association for Behavior Analysis International, Chicago, IL.

Hutsell, B. A., Banks, M. L., Rice, K., Negus, S. S. (March, 2014). *Effects of kappa-opioid receptor antagonist nor-binaltorphimine on cocaine vs. food choice and extended-access cocaine intake in rhesus monkeys*. Poster presented at the annual Experimental Biology meeting, San Diego, CA.

*Shen, A., *Pope, D., B., Hutsell, B. A., & Newland, M. C. (May, 2012). *A comparison of spatial learning in adolescent and adult BALB/c mice*. Poster presented at the annual meeting of the Association for Behavior Analysis International, Seattle, WA.

*Pope, D., *Shen, A., B., Hutsell, B. A., & Newland, M. C. (May, 2012). *Performance of adolescent BALB/c mice in an incremental repeated acquisition procedure*. Poster presented at the annual meeting of the Association for Behavior Analysis International, Seattle, WA.

*Cummings, C. W., ^Campbell, B., Hutsell, B. A., & Newland, M. C. (May, 2012). *Mouse Performance in Incremental Repeated Acquisition: Between- and Within-Strain Analysis of Accuracy, Response Rates and Progress Quotient*. Poster presented at the annual meeting of the Association for Behavior Analysis International, Seattle, WA.

^Campbell, B., *Cummings, C. W., Hutsell, B. A., & Newland, M. C. (May, 2012). *Genetic Divergence and Reinforcer Quality Affect Reversal Learning Performance in Mice*. Poster presented at the annual meeting of the Association for Behavior Analysis International, Seattle, WA.

Newland, M. C., Bailey, J. M., Johnson, J. E., Cummings C., Hoffman, D. J, Hutsell, B. A., Ravis, W. R., & Lin, Y. (March 2011). *Neuroprotection by nimodipine against adult-onset MeHg neurotoxicity is route-dependent: effects on neuromotor and cognitive endpoints*. Poster presented at the annual meeting of the Society of Toxicology, Washington, DC.

Martens, K. M., Vonder Haar, C., Hutsell, B., Swan, A. A., & Hoane, M. R. (June, 2010). *Evaluation of a simple odor discrimination task as a novel method of testing cognitive outcome in rodent models of TBI*. Poster presented at the annual meeting of the National Neurotrauma Society, Las Vegas, NV.

Hutsell, B. A., & Jacobs, E. A. (May, 2010). *Unifying Davison-Nevin (1999) and Shepard's (1987) Universal Law of Generalization*. Poster presented at the annual meeting of the Society for the Quantitative Analysis of Behavior, San Antonio, TX.

HONORS AND AWARDS

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| 2013-2016 | National Institutes on Drug Abuse: Training in the Pharmacology of Abuse Drugs – T32 DA007027 |
| 2014 | Virginia Commonwealth University Postdoctoral Association Small Grant Award. “Effects of synthetic cathinones on impulsivity”. \$5000 |
| 2014 | Young Scientist Travel Award. American Society for Pharmacology & Experimental Therapeutics. |
| 2011 | Recipient of the American Psychological Association, Division 25 - Society for the Experimental Analysis of Behavior, Dissertation Award (Basic Research) |
| 2009 | Preliminary Doctoral Examination - Honors Distinction |
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PROFESSIONAL AFFILIATIONS

Association for Behavior Analysis, Student Member, 2002-2009
Association for Behavior Analysis, Affiliate Member, 2010-present
Mid-American Association for Behavior Analysis, Student Member 2006-2007
Southeastern Association for Behavior Analysis, Student Member, 2003-present
Society for the Quantitative Analyses of Behavior, Student Member, 2005-present
American Society for Pharmacology and Experimental Therapeutics, 2014

SERVICE

- *Editorial Activities:*
 - *Guest Reviewer:*
 - *Behavioural Processes – Special Issue: Society for the Quantitative Analysis of Behavior*
 - *Experimental Analysis of Human Behavior Bulletin*
 - *Journal of the Experimental Analysis of Behavior*
 - *Neurotoxicology*
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PROFESSIONAL REFERENCES

Eric A. Jacobs, Ph.D., Associate Professor, Department of Psychology, Southern Illinois University-Carbondale, 1125 Lincoln Drive, Carbondale, IL 62901-6502. Phone: 618.453.3555. eajacobs@siu.edu

Michael E. Young, Ph.D., Professor and Department Head, Department of Psychology, Kansas State University, 492 Bluemont Hall, Manhattan, Kansas 66506-5302. Phone: 785.532.0602. michaelyoung@ksu.edu

M. Christopher Newland, Ph.D., Alumni Professor, Department of Psychology, Auburn University, 226 Thach Hall, 342 West Thach Avenue, Auburn, AL 36849-5212. Phone: 334.844.6479. newlamc@auburn.edu

Matthew L. Banks, Pharm.D., Ph.D., Research Assistant Professor, Department of Pharmacology and Toxicology, Virginia Commonwealth University, 410 North 12th Street, Blackwell Smith Building, PO Box 980613, Richmond, VA, 23298-0613, Phone: 804-828-8466. matthew.banks@vcuhealth.org