

Curriculum Vitae

Samuel Paskewitz

Contact Information

Samuel Paskewitz
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Education

University of Colorado, Boulder CO

Doctor of Philosophy in Cognitive Psychology, 2021

University of Colorado, Boulder CO

Master of Science in Applied Mathematics, 2020

University of Colorado, Boulder CO

Master of Arts in Cognitive Psychology, 2017

St. John's College, Annapolis MD

Bachelor of Arts in Philosophy and History of Mathematics, 2010

Research Experience

Yale University, Dept. of Psychology, New Haven, CT

March 2023 to Present

Post-Doctoral Research Associate

Principal Investigator: Arielle Baskin-Sommers

Used Bayesian latent variable models to analyze Adolescent Brain Cognitive Development study data.

University of Colorado Denver, Dept. of Psychiatry, Aurora, CO

August 2021 to February 2023

Faculty Research Fellow

Principal Investigator: Joel Stoddard

Applied mathematical models of selective attention in learning to the study of social anxiety and exposure therapy. This included using mathematical learning models to study individual differences in attention to threat stimuli and relating this to clinical outcomes and brain activity measured by fMRI.

University of Colorado Boulder, Dept. of Psychology, Boulder, CO

August 2015 to July 2021

Graduate Student

Principal Investigator: Matt Jones

Developed and tested mathematical models of learning with a particular focus on selective attention. Topics included category learning, the role of outcome value, attention to threat-related stimuli, and Pavlovian extinction and extinction.

Weill Cornell Medical College, Dept. of Pediatrics, New York, NY

July 2013 to May 2015

Collaborator

Principal Investigator: Susan Vannucci

Assisted in establishing protocols for behavioral and cognitive tests for use with a rat model of neonatal cerebral hypoxia-ischemia.

Weill Cornell Medical College, Dept. of Neuroscience, New York, NY

July 2013 to May 2015

Principal Investigator: M.E. Ross

Collaborator

Provided technical assistance in testing prepulse inhibition of the acoustic startle reflex in a murine model of lissencephaly.

Columbia University, Dept. of Psychiatry, New York NY

May 2011 to May 2015

Research Assistant

Principal Investigator: Holly Moore

Planned and conducted experiments examining learning, cognitive flexibility, object memory, sensorimotor gating, navigational strategies and the effects of psychostimulants on locomotor activity in several murine models of psychiatric disorders. Planned and conducted a series of experiments examining the role of various stimulus-parameters in prepulse inhibition of the acoustic startle reflex in mice, and their interaction with drugs. Trained and supervised volunteers. Mentored an undergraduate student doing an independent study project. Assisted with laboratory animal management.

Columbia University, Dept. of Psychiatry, New York NY

February to May 2011

Volunteer

Principal Investigator: Holly Moore

Worked with genetic mouse models of schizophrenia. Performed DNA extraction and analysis for genotyping. Adapted an attentional set-shifting paradigm (Birrell and Brown, 2000) originally designed for rats to examine discrimination learning and cognitive flexibility in the *ccnd2* null murine model of schizophrenia.

University of Chicago, Institute for Mind and Biology, Chicago IL

June to August 2010

Hodson Trust Internship Program

Principal Investigator: Leslie Kay

Assisted with an experiment examining the potential effects of tone-pulses on rats' ability to distinguish binary odor mixtures in an operant conditioning paradigm. Processed data using Matlab. With a fellow intern, presented results to other summer interns in a classroom setting.

Georgetown University, Dept. of Pharmacology, Washington DC

June to August 2009

Volunteer

Principal Investigator: Karen Gale

Assisted with an experiment examining the impact of muscimol infusions of the basolateral amygdala on reinforcer devaluation in rats in an operant paradigm. Helped run a variety of behavioral tests in mouse and rat models of seizure disorders, including effects of neonatal exposure to anticonvulsants.

Teaching Experience

University of Colorado, Dept. of Psychology, Boulder CO

2015 to 2021

Teaching assistant and freelance tutor for introductory statistics, introductory psychology, and cognitive psychology courses.

Publications

- Gilani, A. I., Chohan, M. O., Inan, M., Schobel, S. A., Chaudhury, N. H., Paskewitz, S., . . . others (2014). Interneuron precursor transplants in adult hippocampus reverse psychosis-relevant features in a mouse model of hippocampal disinhibition. *Proceedings of the National Academy of Sciences*, *111*(20), 7450–7455.
- Paskewitz, S., & Jones, M. (2020). Dissecting EXIT. *Journal of Mathematical Psychology*, *97*, 102371.
- Paskewitz, S., & Jones, M. (2023). A statistical foundation for derived attention. *Journal of Mathematical Psychology*, *112*, 102728. (Publisher: Elsevier)
- Paskewitz, S., Stoddard, J., & Jones, M. (2022). Explaining the Return of Fear with Revised Rescorla-Wagner Models. *Computational Psychiatry*, *6*(1). (Publisher: Ubiquity Press)

Patel, S. D., Pierce, L., Ciardiello, A., Hutton, A., Paskewitz, S., Aronowitz, E., ... Vannucci, S. J. (2015). Therapeutic hypothermia and hypoxia–ischemia in the term-equivalent neonatal rat: characterization of a translational preclinical model. *Pediatric Research*, *78*(3), 264–271.