

HAYDEN SCOTT

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Graduate Student Adaptable | Curious | Motivated

I am a hard-working student dedicated to a lifelong career in cognitive neuroscience. I received my BS in Neuroscience with a minor in chemistry from the University of Kentucky. My research interests include: attention, working memory, addiction, schizophrenia, ADHD and much more. I started out in the lab of Associate Vice President for Research at the University of Kentucky, Dr. Craig Rush, and began my research career working with humans. Afterwards, I switched to rodent models, using in-vivo Micro Electrode Array (MEA) technology for measuring tonic and phasic glutamate release in models of addiction. Afterwards, I moved to Sweden for one year to work under Dr. Konradsson-Geuken and Erika Roman in order to further my mastery of biosensor technology. After graduating I was accepted into the Brain and Cognitive science PhD program at the University of Rochester, working under Dr. Adam Snyder. My current work includes utilizing tools from artificial intelligence to investigate the primate visual system.

AREAS OF EXPERTISE

Animal Work
MatLab/Python
Electrode Design
FELASA cat. B EU Directive 63 certified
Electrophysiology

FAST System Operation
Drug Preparation and Administration
Glutamate Recordings
Surgical technique
Decision making and Reward

PROFESSIONAL HISTORY

SNYDER COMPUTATIONAL NEUROSCIENCE LAB | 2018 - PRESENT

Graduate Student

Rochester, NY

- I am currently working on studying population dynamics during attention and working memory tasks in rhesus macaque at the University of Rochester.

ROMAN PHARMACOLOGY LAB | 2016 - 2017

Student Researcher

Uppsala, Sweden

- While living in Sweden, I worked in the lab of Erika Roman with Dr. Åsa Konradsson-Geuken. I was enrolled in a masters course in the pharmaceutical sciences department and worked with the multivariate concentric square field (MCSF) behavioral arena. I also set up and validated glutamate electrophysiological recordings in rodents for their lab. While there I became certified to work with rodents and lagomorphs within the EU, and also coauthored a paper regarding sex-dependent differences in alcohol consumption between two housing setups in wistar rats that is currently undergoing revision.

DR. BECKMANN'S BEHAVIORAL NEUROSCIENCE LAB | 2014 - 2016

Laboratory Technician

Lexington, KY

- As the PI of a start-up lab, Dr. Joshua Beckmann was looking to expand by enlisting the help of qualified interns. While taking a full class load, I worked with the Beckmann lab, doing everything from building micro-electrodes, to handling and working with the rats, and even assisting on various surgeries. I worked closely with graduate student Seth Batten, often helping him with his micro infusion studies of lactate and delayed discounting. After earning all

allotted credit hours, Dr. Beckmann decided to hire me as a Laboratory Technician for over the summer of 2015. I continued to work as a laboratory technician through the summer of 2016 when I moved to Sweden for a laboratory position.

SUMMER TRAINING IN ALCOHOL RESEARCH (STAR) | SUMMER 2014

Student Intern

Lexington, KY

- I spent the summer working with alcohol, cocaine, and opium addicts on a personal level. I conducted phone interviews and worked on a theoretical level with post-doc Dr. Levi Bolin on his work with gambling addiction. In this lab, I assisted his research with a focus on perception, attention, impulsivity and other psychological constructs. At the end of this program, students made a presentation on the research they conducted, as if presenting to a formal conference of the scientific community. I did my presentation on impulse control disorders, attentional bias, probabilistic decision making, and pathological gambling.

SELECTED ACHIEVEMENTS

DEANS LIST

- I was a Deans list honor student nearly every semester, throughout my undergraduate career. This is a testament to my level of commitment to learning and pursuing a career in the academic sciences.

UNIVERSITY OF KENTUCKY ARTS AND SCIENCES AMBASSADOR 2015-2016

- I was selected to represent the University of Kentucky's college of arts and sciences as an A&S Ambassador. I am the face of UK to other colleges and high schools and are highly involved in the new student recruitment process. I learned much about working within a diverse group to enact change on campus.

NRT-DESE 2018-2019

- The NSF research traineeship in data-enabled science and engineering (NRT-DESE) is a prestigious program, and I was one of a select few graduate students awarded a spot in their graduate training in data-enabled research into human behavior and its cognitive and neural mechanisms program. The program provided me with research experience at the intersection of neuroscience, computer science, and data science.

EDUCATION & HONORS

Bachelor of Science: Neuroscience; University of Kentucky (05/2018)

Masters courses in Pharmaceutical Sciences; Uppsala Universitet (55 ECTS credits)

PhD, Brain and Cognitive Science; University of Rochester (12 credit hours)

NeurIPS conference attendance; 2018