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#### Education

University of Pittsburgh, Pittsburgh, PA, USA (Expected Graduation: April 2017)

B.Sc. Neuroscience (dept. Honors\*) – cellular and systems, plasticity, neurophysiology

B.Sc. Psychology - cognition and bio/behavioral/health psychology

Minors: Chemistry, Bioengineering - signals and systems analysis, applied to neural systems

Honors College Courses: Introduction to Neuroscience, Human Physiology, Neurophysiology\*, Topics in Bio/Health Psychology\*, Quantitative Neuroscience Systems\*

GPA: 3.59 cumulative, 3.78 Neuroscience, 3.63 Psychology

## **Professional Experience**

Research Associate 2013-Present

**Cognitive Axon Lab** (PI: Timothy Verstynen, PhD), Carnegie Mellon University, Pittsburgh, PA, USA Led funded human behavioral study in Sensory Uncertainty and Spatial Decision-making.

- Developed hypothesis on how people make value-based decisions using sensory uncertainty
- Designed sensorimotor decision-making experiment, and acquired research award
- Recruited participants, ran experiment, and managed demographics and experimental data
- Used MATLAB to conduct statistical analyses of behavioral psychophysics data
- Presented basic psychology/ behavioral data in poster at Society for Neuroscience 2016
- Collaborated to apply comp. model (DDM, RL hybrid) for insight into decision processes

Measure of success: Ability to synthesize results with literature in undergraduate thesis

MATLAB, (some Python): experimental design, computational models\*, statistical analysis, visualization.

Collaborated with projects throughout the lab, including brainstorming, piloting, and running experiments.

Organized and presented at weekly lab meetings, journal clubs, and social events.

CITI-certified, IRB-approval experience in collection of psychology/behavioral human data.

Attended lectures through Center for the Neural Basis of Cognition to promote diverse comprehension.

Peer Educator (Volunteer) 2015 - Present

Stress Free Zone (SFZ), University of Pittsburgh, Pittsburgh, PA, USA

Led outreach aimed to introduce students to evidence-based stress-reduction/management techniques.

Provided tours and instruction on SFZ tools and services (e.g. Heart Rate Variability Biofeedback).

Staffed special events on University of Pittsburgh campus (e.g. Mental Health Awareness Week).

Conducted literature searches on Research Team to keep up-to-date on evidenced-based approaches.

Actively participated in activities focused on personal and team development (tight-knit groups of ~10).

- Identifying personal and team dynamics for effective interactions.
- Developing and accomplishing specific, meaningful goals in personal, career and health domains.
- Developing personal accountability, compassion, and motivation.
- Measure of success: Reporting progress on well-defined checkpoints and goal completion.

# **Teaching Experience**

<u>UHC Introduction to Neuroscience</u> (NROSCI 1003), Anne-Marie Oswald, University of Pittsburgh Spring 2015 Duties: Teaching assistant, fellowship project, led recitation sessions, weekly journal club, office hours

## **Publications & Posters**

"Sensory uncertainty impacts risk aversion during spatial decisions." Jarbo, K., **Flemming, R.**, Verstynen, T. D. (under revision for *The Journal of Neurophysiology*)

"Sensory Uncertainty Influences Value-based Risky Decisions." **R. Flemming**, K. Jarbo & T. Verstynen, Abs. Society for Neuroscience, 2016. (PDF)

"Highway from the Danger Zone: Interactions between uncertainty and cost in spatial estimation." K. Jarbo, R. Flemming & T. Verstynen, Abs. Society for Neuroscience, 2014. (PDF)

### **Professional Affiliations**

Society for Neuroscience, National Society of Collegiate Scholars

#### **Academic Honors and Fellowships**

University Honors College (UHC) Off-Campus Research Award - Summer 2015 Chancellor's Undergraduate Teaching Fellow - Spring 2015 - UHC Intro to Neuroscience Dean's Honor List, Dietrich School of Arts and Sciences: Fall 2013, 2015 & Spring 2014, 2016

<sup>\* =</sup> spring 2017