

## Relevant Skills

**Advanced:** MATLAB, Java

**Intermediate:** Python, R, SQL, LaTeX

**Other:** Excel

## Education

**Bachelor of Science** (New York University) Sept 2015 – Jan 2019  
**Major:** Neural Science **Joint Minor:** Computer Science & Mathematics  
**Honors Thesis:** "Secernin-1 is a Novel Protein Involved in Alzheimer's Disease"

## Experience (selected)

**Tracking rodent whiskers** (University College London) Jan 2019 – Dec 2019  
• Welded deep learning models to identify and track whiskers from videography

**Analyzing rideshare data** (No affiliation) Feb 2019 – Mar 2019  
• Provided quantitative backbone for potential rideshare comparison app by revealing hidden trends in data from over 12 million Uber, Lyft, Gett and Juno rides in NYC from 2018

**Classifying brain tissue** (New York University) Nov 2016 – Dec 2018  
• Demonstrated role of a protein in Alzheimer's disease using an ML model to classify stained brain tissue samples

**Tracking eye movement** (Brown University) Jun 2018 – Aug 2018  
• Created algorithms to identify a specific class of eye movements on-line during behavioral task

**Movement tracking of larvae** (University of Michigan) May 2017 – Aug 2017  
• Wrote software to identify and track multiple fruit fly larvae from videography

**Analyzing patient health data** (Posit Science Inc.) Mar 2012 – Jun 2015  
• Analyzed longitudinal patient data from Alzheimer's study, determining efficacy of brain fitness exercises

## Publications

"Decision coding by layer 2/3 neurons in primary somatosensory cortex" (Manuscript in preparation)  
Buetfering, C., Boven, E., **McElligott, S.K.**, Pitsiani, M., Smallridge, J., Häusser, M.

"Secernin-1 is a novel phosphorylated tau binding protein that accumulates in Alzheimer's disease and not in other tauopathies" *Acta Neuropathol Commun*; 7, 195 (2019) \*Read more than 90% of all items on ResearchGate from 2019\*  
Pires, G., **McElligott, S.K.**, Drusinsky, S., Halliday, G., Potier, M.C., Wisniewski, T., Drummond, E.S.

## Grants and Awards

**NSF Graduate Research Fellowship** (2019; awarded, did not accept) – *Provides complete financial support for 3 years of PhD studies. Selection is a "significant national achievement"* (\$48,000/year; Total: \$144,000) (National Science Foundation)

**NIH BP-ENDURE Fellowship** (2017 – 2019) – *Hourly payment for all research conducted during the academic year including summer research opportunities* (\$16,347/year; Total: \$32,694) (National Institutes of Health)

**Samuel M. Feldman Neural Science Thesis Prize** (2019) (Total: \$100) (New York University)

**CAS Merit Scholarship** (2015 – 2019) (\$39,600/year; Total: \$138,600) (New York University)

**Dean's Honors List** (2018) (New York University)

**Dean's Undergraduate Research Fund (x3)** (2016, 2017) (\$1000/award; Total: \$3,000) (New York University)

**Dean's Opportunity Fund for Graduate School** (2019) (Total: \$500) (New York University)

**Dean's Undergraduate Conference Grant (x2)** (2018) (Total: \$935) (New York University)

**Best Poster Presentation** (2017) (New York University)

## Other

- 12 conference presentations
- 1 year of tutoring at Rikers Island Jail
- Spanish (fluent), German (conversational)
- 2 years of neuroscience outreach
- Peer Mentor to 4 undergraduates
- Sigma Xi Honor Society