

## Education

**Massachusetts Institute of Technology**  
PhD in Brain & Cognitive Sciences.

(expected) 2019 – 2024

**Harvard College**

2015 – 2019

AB in Neurobiology. Secondary field in Mathematical Sciences. GPA: 3.7

## Research Experience

**Cellino Biotech, Inc.**, Biology R&D Intern

Jun 2018 – May 2019

- Implemented CRISPR-activation protocol for rapid 3-day hiPSC→neuron differentiation
- Used scRNA-seq trajectory analysis to select targets for 3-week hiPSC→DA neuron maturation
- Assisted with proprietary laser-based intracellular delivery technology development for transient transfection of adherent cell cultures with high spatial resolution

**Biogen Inc.**, Biopharmaceutics Intern

Jun – Aug 2017

- Designed and validated new assay for USP Apparatus III to correlate *in vitro* dissolution with *in vivo* pharmacokinetics of oral extended-release drugs
- Streamlined fiber optic dissolution data analysis pipeline to enable adaptive screening experiment design

**Z. He Lab**, Harvard Medical School & Boston Children's Hospital

Jun 2016 – May 2017

- Quantified oligodendrocyte progenitor proliferation/differentiation after acute optic nerve injury *in vivo*
- Investigated specific effects of disease-modifying drugs for MS on microglia activation *in vivo*
- Constructed mouse behavioral apparatuses to assess visual acuity as proxy for functional axon regeneration

**O'Connell Lab**, Harvard University

Feb – May 2016

- Screened for toxin-binding proteins involved in dietary toxin sequestration via mass spectrometry
- Dissected insect samples from *Mantella laevis* stomachs for COX sequence-based species identification
- Contributed directly to manuscript writing and revision (Moskowitz *et al.* 2018)

## Publications

**NA Moskowitz, et al.** Seasonal changes in diet and toxicity in the Climbing Mantella frog (*Mantella laevis*).  
*PLOS ONE*, 26 Dec 2018. doi: 10.1101/361998

## Teaching

**MCB80x**: Fundamentals of Neuroscience, HarvardX

Jan 2019 – present

Discussion moderator & curriculum developer for three-part certificate course:

**MCB80.1x**: The Electrical Properties of the Neuron;   **MCB80.2x**: Neurons and Networks

**MCB80.3x**: The Brain

## Awards and Honors

**Jacob Wendell Scholarship Prize**, Finalist  
**Harvard College Scholar**

2017

2015 – 2016