

# Zachary T. Pennington, PhD

Department of Neuroscience  
Icahn School of Medicine at Mount Sinai  
Email: zachpen87@gmail.com Website: ZachPenn.github.io

## Education

---

- 2018 **PhD, Behavioral Neuroscience and Quantitative Psychology. UCLA** (GPA 3.97)  
*10 peer-reviewed publications*
- 2010 **BA, Psychology. UCLA** (GPA 3.97)

## Positions

---

- 2023-Present **Instructor, Icahn School of Medicine at Mount Sinai**  
*Conceptualized, designed, and oversaw neurobehavioral experiments*  
*Secured independent research funding*
- 2018-2022 **Postdoctoral Fellow, Icahn School of Medicine at Mount Sinai**  
*Conceptualized, designed, and oversaw neurobehavioral experiments*  
*Wrote multiple analysis pipelines for video-tracking, sleep-scoring, cell counting, and more.*  
*10 publications*

## Fellowships, Awards and Honors

---

- 2023-2028 National Institutes of Mental Health Pathway to Independence Award (\$999,000)
- 2023-2025 Behavior & Brain Research Foundation, Young Investigator Award (\$70,000)
- 2022 Mount Sinai Neuroscience Outstanding Citizen Award (\$1000)
- 2015-2017 National Institutes of Mental Health Predoctoral Fellowship (\$80,000)

## Professional Leadership and Service

---

- 2019-present Instructor, Miniscope Workshops  
*Co-instructed several international workshops on the use of miniature microscope assembly, use, and data analysis to a diverse group of scientists.*
- 2021-2022 Chair, Mount Sinai Neuroscience Postdoctoral Association  
*Co-developed scholarship opportunity for scientists from underrepresented backgrounds, organized multiple career panels, created grant-writing resources for trainees, created job-search support group for trainees, and organized socials.*

## Skills

---

- Management** *Have trained and overseen multiple lab technicians, graduate students, and undergraduates, and guided them to their next career stage*
- Grant-writing** *Have written/co-written multiple grants earning >\$100,000*
- Teaching** *Have instructed courses for faculty, graduate students, and trainees*
- Programming** *R, Python, git*  
*Have published multiple open-source software packages, most notably, the behavioral tracking software ezTrack, used across 6 continents and cited >100 times since 2019.*
- Statistics** *Multiple regression, hierarchical linear models, generalized linear models, PCA*
- Microscopy** *Light-sheet microscopy, confocal microscopy, in vivo single photon calcium imaging*
- Wet lab** *Stereotaxic surgery, immunohistochemistry, tissue clearing, PCR, cryostat*