

Robin Sifre

(201) 403-5243
robinsifre@gmail.com
robin-sifre.netlify.app
github.com/rrobin



EDUCATION

Ph.D. in Developmental Psychology, Minor in Data Science | University of Minnesota Twin Cities
National Science Foundation Graduate Research Fellow

Graduation Date: May 2021 (expected)

B.S. in Cognitive Neuroscience | Brown University, Providence, RI

Graduation Date: May 2014, *Magna Cum Laude*



PROJECTS & RESEARCH

Modeling infant eye-tracking data.

- Applied fractal geometry to eye-tracking data to characterize complexity in infants attention.
- Designed and programmed a gaze-contingent eye-tracking task in MATLAB.

Applying machine learning to develop low-cost screeners for developmental disorders.

- Built an SVM classifier to predict future autism diagnosis in infants.

Brain development in infants

- Collect and analyze functional MRI data to model brain connectivity in infants.

Evaluating validity of survey data with factor analysis.

- Analyzed survey data from parents reporting on their children's behaviors.
- Tested whether questions functioned the same for parents reporting on younger vs. older children.



LEADERSHIP & TEACHING

Graduate Student Representative | University of Minnesota

SEP 2019-PRESENT

- Hold focus groups with graduate students to gather information about perceived strengths and weaknesses of graduate training.
- Distill feedback into list of priority action items.
- Work with department leaders to execute solutions and improve graduate training.

Course Instructor | University of Minnesota

JAN 2019-MAY 2019

- Taught Intro to Child Psychology. Developed curriculum, lectures, and test materials.

Head Writing Fellow | Brown University

SEPT 2013-MAY 2014

- Worked with college students to improve the clarity of their writing. Managed team of writing tutors.



TECHNICAL SKILLS & ACHIEVEMENTS

Software: Advanced R and MATLAB; Intermediate Python and Java.

Statistics and Machine Learning: SVM, Random forest classifier, experimental testing & design, generalized linear models, logistic regression, factor analysis. Comfortable in time series analysis.

Other: Data management, writing and communication.

Achievements: Rhodes Scholarship finalist; Recipient of graduate student professional development grants.

Personal Interests: Climbing, science outreach, hiking.