

Robin Sifre

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github.com/rrobin



Psychology researcher with 6+ years of experience in applied and collaborative research settings.

Passionate about understanding peoples' experiences through data.



EDUCATION

M.A. in Developmental Psychology | University of Minnesota Twin Cities | May 2017

B.S. in Cognitive Neuroscience | Brown University | May 2014, *Magna Cum Laude*



WORK & QUANTITATIVE RESEARCH EXPERIENCE

Data Scientist/Statistician | Human Diversity Lab, Princeton University

DEC 2020-PRESENT

- Design logical and clear data organizational structure for 20-year-long study.
- Build data cleaning and data import/export pipeline in R and RMarkdown.
- Act as statistical consultant on various causal inference and longitudinal modelling projects.

Quantitative Researcher & Ph.D. Candidate | University of Minnesota

SEP 2016 – MAY 2021 (Expected)

Adjusting for bias in survey data

- Tested for measurement bias in survey data from parents reporting on their children's behaviors.
- Integrated data collected across three study designs using tidyverse.

Modelling infant eye-tracking data

- Created eye-tracking processing pipeline for researchers (publicly available on github.com/rrobin/fractal-eye-analyses).
- Modeled longitudinal attention profiles in R. Presented findings at conferences and published results.

Brain development in infants

- Used exploratory data analysis to examine the relationship between functional brain networks and behavioral development in infancy.
- Led collaboration with multiple data collection sites to pool and analyze data.



LEADERSHIP & TEACHING

Graduate Student Representative | University of Minnesota

SEP 2019-MAY 2020

- Held focus groups with graduate students to gather information about perceived strengths and weaknesses of graduate training. Distilled feedback into list of priority action items.

Course Instructor | University of Minnesota

JAN 2019-MAY 2019

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



TECHNICAL SKILLS & ACHIEVEMENTS

Software: R, RMarkdown, Python, and MATLAB; Intermediate SQL, Java, and bash scripting.

Statistics: Descriptive and inferential statistics. Logistic regression, factor analysis, time series analysis, longitudinal analysis, network analysis, multi-level modelling, and causal inference.

Other: Data visualization (ggplot2), data wrangling (tidyverse), experimental design, survey design, psychometrics, writing and communication.

Achievements: Rhodes Scholarship finalist; Recipient of \$138,000 NSF training grant.

Personal Interests: Climbing, science outreach, hiking.

