

SARA SHAO

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EDUCATION

- Duke University, Trinity College of Arts and Sciences**, Durham, NC Aug. 2019-May 2023
- Bachelor of Science in Statistics (Data Science) & Psychology, Minor in Computer Science
 - Cumulative GPA: 3.95 (Cum Laude)
- Westview High School**, Portland, Oregon Aug. 2015-Jun. 2019
- Cumulative GPA: 4.36, SAT: 1550

WORK EXPERIENCE

- OHSU CMHI Analytics Core**, *Research Data Analyst*, Portland, OR Jun. 2023-present
- Created website to organize resources around statistical programs, statistical analysis methods, machine learning, and neuroimaging in psychology & neuroscience
 - Ran Bayesian multilevel models to explore correlates of youth brain development
 - Created numerous tutorials on data cleaning and analysis procedures in R
 - Developed publicly-available data cleaning functions for national studies like ABCD and NCANDA
 - Assisted w/ quality check and curation of numerous datasets
 - Mentored undergraduate volunteer, providing R training and professional development opportunities
- Adcock Lab & LaBar Lab**, *Research Assistant*, Durham, NC Jan. 2023-Apr. 2023
- Assisted with neurofeedback study exploring how people regulate their motivational state
 - Learned about the collection, processing, and analysis of fMRI data
 - Wrote script to score various questionnaires for all subjects
 - Ran preliminary analyses to correlate questionnaire scores with task fMRI activation for various ROIs
- Spotify**, *Quantitative User Research Intern*, New York, NY Jun. 2022-Aug. 2022
- Investigated issue of unchecked overconsumption of digital media brought on by big tech companies
 - Utilized behavioral science theories to design in-app messages aimed at influencing video watch time
 - Analyzed massive amounts of existing watch time data to nail down experimental design choices
 - Rolled out messaging campaign targeting 100,000 active Spotify users
 - Quantified campaign results through A/B testing, presented findings and recommendations to stakeholders
 - Currently assessing viability of the experimental findings for publication
- Metronet**, *Operations Intern*, Evansville, IN May 2021-Apr. 2022
- Used Power BI data visualization software to create reports allowing directors to make high-level decisions
 - Completed 5 automation projects, which saves the company 55hrs/month
 - Exceeded internship project target (complete 10 projects) by 50%
 - Gave input on project feasibility from a data perspective during process improvement meetings
 - Summarized findings to an audience of various departmental heads and executives
 - Analyzed factors influencing user churn using visual and machine learning methods
- Adcock Lab**, *Research Intern / Research Assistant*, Durham, NC Sep. 2020-May 2021
- Planned and developed a PsychoPy study to explore key factors influencing charitable giving
 - Conducted a comprehensive literature review of research around human curiosity
 - Preprocessed raw experimental data (20k+ rows w/ Python) & conducted preliminary univariate data analysis
 - Fit linear & logistic regression models (w/ R) to explore relationship between curiosity, emotion, and memory
 - Graphed various bivariate interactions between variables (w/ R) and communicated relationships/implications
 - Presented a summary of contributions to a board of postdocs and professors
- Hunger Fighters Oregon**, *Operations Intern*, Lake Oswego, OR Jun. 2020-Aug. 2020
- Designed & implemented online custom grocery system to increase pantry efficiency, expand equitable access to food, and improve inventory management
 - Designed new web pages on organization's website to accommodate new online ordering system
 - Created training materials for future project managers to ensure long-term success of system

MANUSCRIPTS

Submitted for publication:

S.A. Jones, C.I. Bango, **S. Shao**, D.Y. Del Rubin, A.L. Flores, B.J. Nagel, A.L. Holley, & A.C. Wilson (2024). White matter microstructural associations with pain experiences in a large community sample of youth.

POSTERS

S. Shao, G. Harman, S.A. Jones, D. Kliamovich, D.Y. Del Rubin, A. Del Giacco, A.L. Flores, & B.J. Nagel (2024). Prediction of suicide attempts in early adolescence—Presented at OHSU Research Week

VOLUNTEER EXPERIENCE

Hopeline, *Crisis Intervention Specialist*, Durham, NC

Mar. 2023-present

Oregon Youthline, *Peer Crisis Intervention Specialist*, Portland, OR

Jan. 2017-Jun. 2019

SKILLS

Skills: Data Analysis (Python Jupyter, R, Excel), Bayesian Statistics, Mixed Models, Neuroimaging Analysis, Factor Analysis, Latent Class Analysis, Qualtrics, PsychoPy, Programming (Python, Java), SQL (Oracle), Power BI