

SAM J. PORTNOW

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gitlab.com/SamPortnow
github.com/SamPortnow

SUMMARY OF QUALIFICATIONS

Interdisciplinary psychologist with excellent quantitative skills and programming skills.

EDUCATION

PhD, Community Psychology	<i>University of Virginia</i>	2017
BA, Psychology	<i>New York University</i>	2009

SKILLS

Leadership

- Organized several brown bags at the Government Accountability Office (GAO) on best practices in data storage and manipulation
- Lead an effort to use deep learning on text for the first time at the GAO
- Supervised an undergraduate Honor's Thesis from conception to publication

Analytical

- Employed Natural Language Processing (NLP) to analyze patterns in court sentences and identify duplicative IT acquisitions; used OCR to extract text from documents
- Built a Shiny web application in R to create graphs that conformed to Government Accountability Office (GAO) publishing standards
- Used causal inference techniques to statistically examine the effect of an increase in family income on parenting behaviors and child achievement

Communication

- Coordinated a meeting of the Organization of Supreme Audit Institutions at GAO
- First-authored several manuscripts
- Coordinated efforts between psychologists and software engineers in the creation of a web-based intervention, MindTrails (<https://mindtrails.virginia.edu/>).

WORK EXPERIENCE

Data Analyst, Government Accountability Office 2017 – Present
Led and assisted on statistical analyses, machine learning applications, and software development for a variety of projects; spearheaded the use of state-of-the-art NLP applications

Graduate Research Assistant 2012 – 2017
Managed independent and collaborative research projects examining child achievement and social-emotional development

Intern, Center for Open Science 2012 – 2015
Software developer for a website that promotes open science practices (<https://osf.io/>)

Graduate Teaching Assistant 2008 – 2017
Taught review and lab sections for undergraduate courses in Psychology

TECHNICAL SKILLS

- **Languages:** R, Python, javascript, SAS *familiar with:* SQL, SPSS, *exposure to:* STATA
- **Tools:** git, dplyr, ggplot2, pandas, shiny, Jags, Stan, Tensorflow, Spark, AWS
- **Statistics:** generalized linear and mixed-effects models, random forests, cluster analysis, causal inference, Bayesian statistics, Natural Language Processing, deep learning