

# IAN RICHARD FERGUSON, M.A.

## COMPUTATIONAL SOCIAL SCIENTIST

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### PROFILE

My background in academic research has afforded me a rich computational toolbox to solve a range of technical problems. I have a demonstrated history exploring the mechanisms underlying political attitudes using nuanced and creative methodological approaches, and I am thrilled to channel these efforts to support a more progressive future.

### EXPERIENCE

#### LAB MANAGER

##### **Stanford Social Neuroscience Lab (Palo Alto, CA)** **2020 - Present**

- Independent research uses Machine Learning to assess relationship between changing local demographics and use of hate speech online
- Designed fully-automated neuroimaging pipeline using object-oriented Python
- Scraped and cleaned semantic data from 30+ years of congressional records, correlated with speaker ideology to identify trends in moral language usage

#### GRADUATE RESEARCH ASSISTANT

##### **Social Cognitive and Neural Sciences Lab (New York, NY)** **2018 - 2020**

- Masters' thesis used Generalized estimating equations to model perceived threat of mixed-race groups in status threatened individuals
- Designed automated email reminder system for study participants

#### STORE SYSTEMS INTEGRATOR

##### **Whole Foods Market (Richmond, VA & Brooklyn, NY)** **2016-2020**

- Implemented price auditing infrastructure to identify erroneous item pricing
- Automated team-specific weekly error reports using Excel macros

### SKILLS

- **Python** (Pandas, NumPy, SK-Learn, Flask)
- **R** (Tidyverse, MASS, lme4)
- **Database querying** (MySQL, Postgres, SQLite, Maria DB)
- **Statistics and Machine Learning fundamentals** (OLS and regularized regression, significance testing, PCA and data decomposition)
- **Collaboration** (Git, Replit)

### EDUCATION

#### M.A. IN PSYCHOLOGY

**New York University (2018 - 2020)**

#### B.S. IN PSYCHOLOGY (MINOR IN BUSINESS)

**Virginia Commonwealth University (2012 - 2015)**