Micaela V. McCall

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SKILLS

Data Science Python (Pandas, NumPy, Scikit-learn, Matplotlib/Seaborn, & more), R (Tidyverse, various statistical packages), predictive analytics/machine learning, statistical modeling (univariate and multivariate modelling, parametric and nonparametric statistics), Git/Github, Unix/Linux, SQL

Research/Other FSL (MRI and fMRI analysis), Microsoft Suite, Prism, multidisciplinary collaboration, design of written and verbal reports, clinical communication, MATLAB, Spanish (proficient)

EDUCATION

Emory University, *BS in Neuroscience and Behavioral Biology, BA in Religion* *2014-2018*
- Phi Beta Kappa, Highest Honors in Neuroscience Research *Atlanta, GA*

PROJECTS & PUBLICATIONS more at micaelamccall.com

Exploring Patient Satisfaction and Readmission in Medically Underserved Areas (GitHub) *09-2019*
FAES @ National Institutes of Health, Bioinformatics and Data Science *Bethesda, MD*
- Munged data from multiple API queries, totalling over XX rows, and visualized factor relationships using Python.

Using Supervised Learning to Classify Drug Consumption Behavior (GitHub) *11-2018*
FAES @ National Institutes of Health, Bioinformatics and Data Science *Bethesda, MD*
- Trained logistic regression, random forest, and SVC models on survey data to predict drug use using Python.

Pleasant Deep Pressure: Expanding the Social Touch Hypothesis *09-2018*
National Center for Complementary and Integrative Health *Bethesda, MD*
- Processed and statistically analyzed fMRI data using Python and FSL; created visualizations for manuscript (in preparation).

Honors Thesis: Analyzing Non-verbal Behavior Throughout Recovery in a Sample of Depressed Patients Receiving Deep Brain Stimulation *05-2018*
Atlanta, GA
Emory University
- Designed project, collected, and analyzed behavioral data in R using factor analysis, analysis of variance, and regression.

EXPERIENCE

Research Analyst *05-2018 - Present*
National Institutes of Health, National Center for Complementary and Integrative Health *Bethesda, MD*
- Facilitated patient visits, consulted with patients on study procedures and concerns
- Built pipelines in R and Python for analysis of behavioral and physiological data (fMRI, autonomic)
- Implemented experimental procedures with an eye towards data quality and bias
- Designed data visualizations, written, and verbal reports for multidisciplinary audiences

Undergraduate Neuroscience Research Honors Candidate *06-2017 - 05-2018*
Emory University School of Medicine, Dept. of Psychiatry *Atlanta, GA*
- Earned Highest Honors in research
- Developed projects to collect and statistically examine physiological and quantitative behavioral data using R
- Presented results to diverse, technical and non-technical thesis committee.