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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

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 michaelmccall.com](https://michaelmccall.com) 📄

Exploring Patient Satisfaction and Readmission in Medically Underserved Areas [\(GitHub\)](#)

09-2019

NIH Foundation for Advances Education in the Sciences, Bioinformatics and Data Science

Bethesda, MD

- Munged data from multiple API queries, totalling over 2400 rows, and visualized factor relationships using Python.

Using Supervised Learning to Classify Drug Consumption Behavior [\(GitHub\)](#)

11-2018

NIH Foundation for Advances Education in the Sciences, 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 -

National Institutes of Health, National Center for Complementary and Integrative Health

Present

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 -

Emory University School of Medicine, Dept. of Psychiatry

05-2018

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.