

SKILLS

Languages: SQL, python, R, Linux, Matlab, HTML, Javascript, Git, Docker, Singularity

Packages: pytorch, tensorflow, sklearn, open-cv, pandas, numpy, ggplot2, shiny, tidyverse

Statistical Analysis: Predictive Machine Learning (e.g., XGBoost, SVM, Random Forest, etc)
Data Visualization , Computer Vision, Dimension Reduction (PCA, Networks, t-SNE, etc),
Clustering (KNN, MDS, etc), Decision-Trees, Regularization, Regression/ANOVA, Model
Inspection / Feature Selection, Bootstrapping, Model Diagnostics, AB Testing

Other: Communication, Model Insight Translation, Presentation, Writing, Teaching, Leadership

PROFESSIONAL EXPERIENCE & ACADEMIC RESEARCH

Data Analyst [contract], *Trinity Healthcare Resources*, Austin, TX Jan 2023 - Mar 2023

- I built proprietary SQL models to extract raw healthcare claims data, transform it efficiently, and feed pipelines for analysis. I wrote analyses to serve a dashboard to track business objectives, which improved the efficiency of team members to divert efforts where needed.
- I wrote statistical analysis pipelines to track the influx of different patient populations at hundreds of hospitals across the USA, culminating in reports with visualizations of trends, which contributed to a subscription-based product that hospitals subsequently purchased.

Ph.D. Researcher, *the University of Texas*, Austin, TX Aug 2020 - Jan 2023

- Using authorized APIs I scraped posts from Reddit containing images that I used to build a computer vision model of user preferences, showing that common aesthetic principles guided the perception of images from different sub-Reddits [GitHub](#)
- Using network analysis, I mined surveys about behavioral and emotional responses to the COVID-19 pandemic to determine common patterns of experiences and participant clusters, culminating in a presentation of the findings at a relevant conference [GitHub](#)

Data Analyst, *Columbia University*, New York City, NY Dec 2019 - Aug 2020

- Working in a neuroscience lab I built an interpretable machine learning classification pipeline to identify brain morphology associated with childhood trauma exposure, which led to new and undiscovered insights about brain morphology and development [GitHub](#)
- Working in a neuroscience lab I programmed an analysis pipeline to automate machine learning predictive model comparison and feature selection, resulting in peer-reviewed publication reporting the relation between gastrointestinal symptoms and anxiety [Paper](#)

EMPLOYMENT HISTORY

Data Analyst , <i>Trinity Healthcare Resources LLC</i> , Austin, TX	Jan 2023 – Mar 2023
Statistics Consultant , <i>The Univ. of Texas</i> , Austin, TX	Aug 2022 - Jan 2023
Graduate Research Analyst , <i>The Univ. of Texas</i> , Austin, TX	Aug 2021 - May 2022
PhD Research/Teaching Assistant , <i>The Univ. of Texas</i> , Austin, TX	Aug 2020 - Jan 2023
Data Analyst , <i>Columbia University</i> , New York City, NY	Jan 2019 - Aug 2020
Clinical Research Site Manager , <i>Vanguard Research Group</i> , Glen Oaks, NY	Aug 2016 - Aug 2018
Research Coordinator , <i>Vanguard Research Group</i> , Glen Oaks, NY	Aug 2015 - Aug 2016

EDUCATION

Ph.D., Psychology Research , The University of Texas, Austin, TX	2023
M.S., Applied Statistics , Columbia University, New York City, NY	2020
B.S., Psychology , Trinity College, Hartford, CT	2015