🛘 916-261-0695 | 💌 Nathan.A.Warren 1 @gmail.com | 🧥 nathan2warren.github.io/ | 🖸 Nathan2Warren | 🛅 nathan-warren-ds

Skills

Programming Python · Bash · LaTeX

Analytics IPython · SQL · Tableau · Excel/VBA · R · Dataiku

Machine Learning Pytorch · Tensorflow · Scikit-learn · Spark

Cloud Docker · AWS · GCP

Education

Duke University Durham, NC

M.S. in Data Science Aug. 2019 - May. 2021

Coursework: Machine Learning, Deep Learning Engineering, Statistical Modeling, Text analysis, Databases, Algorithms

• GPA: 3.92

Drexel University Philadelphia, PA

B.S. in Biological Sciences Aug. 2012 - May. 2017

Experience

Duke University Durham, NC

Graduate Student Teaching Assistant

Aug. 2020 - Present

Teaching assistant for Data Science with Python (Fall 2020), and Causal Inference (Spring 2021)

Helped students learn essential python programming skills for data science (numpy, pandas, sklearn, dask)

Data+ Durham, NC

Data Science Intern May. 2020 - Aug. 2020

- · Developed machine learning models (Random Forest, CNN-LSTM, etc) to classify human activity based on multi-modal sensor data Achieved an accuracy of 0.85 in classifying activity over 10 second segments of time
- Shared work as open-source on the Digital Biomarker Discovery Pipeline Repository

Children's Hospital of Philadelphia

Philadelphia, PA

Neurology Research Assistant

May. 2017 - Jun. 2019

- Served as Study Director for a proof of concept gene therapy pharmaceutical collaboration
- Oversaw project planning and initialization of drug trials
- Quantified data in ImageJ and conducted statistical analysis in R for publications

GlaxoSmithKline King of Prussia, PA

Research Co-Op: Drug Metabolism and Pharmacokinetics

Mar. 2016 - Sep. 2016

- Characterized pharmacokinetic profiles of small molecules for treatment of COPD
- Analyzed and modeled toxicokinetics of pre-candidate drugs for safety profiling

Projects_

Capstone Project with The Conversation Fund

- · Combined remote sensing, raster, and manual surveying data to estimate biomass in forest properties in order to reduce the cost of manual surveying
- Built a pipeline to download and subset over 13 TB of GEDI (LiDAR) data for client-owned forestland
- Created visualizations and qualified metrics to communicate magnitude of climate impact on forest conservation to stakeholders

Successfully manipulated VGG19 to extract semantic content information and style features from images to create hybrid images

Publications

Neuronal Signaling, Role of frataxin protein deficiency and metabolic dysfunction in Friedreich 2018 ataxia, an autosomal recessive mitochondrial disease

Disease Models & Mechanisms, Early VGLUT1-specific parallel fiber synaptic deficits and 2017 dysregulated cerebellar circuit in the KIKO mouse model of Friedreich ataxia