JOSIAH DAVIS

josiahjdavis.com | 415-500-5958 | josiah.j.davis@gmail.com

M.A., Statistics – University of California, Berkeley

August 2016 - May 2017

• Team lead for course projects in causal inference, machine learning, R package development, and optimization.

B.S., Mechanical Engineering – University of Maryland

August 2006 - Spring 2010

Senior design team project chosen to be primary example for school's Mechanical Engineering design textbook.

Slalom Consulting, Data Scientist

San Francisco, CA

May 2015 - Present

Lead Data Scientist for San Francisco office, directing technical aspects of data science projects, presenting regularly to seniorclients, mentoring junior data scientists, and providing expert contributions to business development efforts.

- Forecasted hourly customer behavior using machine learning (R tidyr, purrr, earth, rpart, randomForest).
- Analyzed customer bias in text of Yelp reviews (Python NLTK, scikit-learn; R tm, stringr, openNLP, syuzhet, plyr).
- Measured concentration in workload/asset distribution with the Gini coefficient (Python pandas, numpy; Tableau).

Deloitte Consulting, Data Scientist

Washington, D.C.

February 2012 - May 2015

Data Scientist for Federal Government clients with experiences in machine learning and hypothesis testing.

- Created tree-based models to predict the probability of rework in benefits-claims process (R randomForest, rpart).
- Derived and created a new estimate of latent process complexity (Python pandas).
- Conducted a program evaluation of a multi-billion technology investment using survival analysis (R survival).
- Earned the outstanding performance award two times for client work.

General Assembly, Data Science Instructor

Washington, D.C.

October 2014 - May 2015

Co-instructor for two iterations of the 66-hour course on Data Science covering the data science pipeline with a focus on supervised and unsupervised machine learning (Python – scikit-learn, pandas, numpy, matplotlib, statsmodels).

Causal Inference

- Directed Acyclic Graphs
- Potential Outcomes
- Backdoor Criteria
- G-computation formula
- Super Learning

Machine Learning

- Clustering
- Decision Trees
- Random Forests
- Ensemble Learning
- Cross-validation

Statistics

- Linear Modeling
- Model Checking
- Regularization
- General Linear Modeling
- Hypothesis Testing

Programming

- Python pandas/numpy
- Python scikit-learn
- R dplyr/tidyr/ggplot2
- R rpart/randomForest
- R devtools/roxygen2