

JOSIAH DAVIS

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EDUCATION

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

August 2016 – May 2017

- Team lead for project analyzing factors contributing to employee retention from a causal framework (R).
- Team lead for developing an R package on Multiple Factor Analysis (R – S3 OOP, devtools, roxygen2).
- Team lead for project to comparing alternative portfolio optimization strategies (Python – cvxpy, scikit-learn, numpy).
- Managed workload of full-time program while working as an employee of Slalom.

B.S., Mechanical Engineering – University of Maryland

August 2006 – December 2010

- Senior design team project chosen to be primary teaching example for the Mechanical Engineering design textbook.
- Study abroad at the Technical University of Denmark (Java, Matlab).

EXPERIENCE

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 senior-clients, mentoring junior data scientists, and providing expert contributions to business development efforts.

- Forecasted hourly customer behavior using machine learning (R – tidyrr, 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 – 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, nltk).

SKILLS

Causal Inference

- Directed Acyclic Graphs
- Potential Outcomes
- Backdoor Criteria
- G-computation formula
- Super Learning
- Targeted Maximum Likelihood Estimation

Machine Learning

- Clustering
- Decision Trees
- Random Forests
- Adaboost
- Ensemble Learning
- Cross-validation
- Natural Language Processing

Statistics

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

Programming

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

TESTIMONIALS

What is most impressive about Josiah is his genuine intellectual curiosity and his ability to solve complex problems in clever ways.... He'll make you love what you do just because he does too.

– Dan Henebery, Data Scientist at Deloitte

His intellectual horsepower provided credibility to engage the key stakeholder who had initially voiced concern about the project... Josiah's collaboration quickly turned a doubter into an advocate and extended team member.

– Aaron Hardisty, Consultant at Slalom

I've been impressed at how Josiah continues to grow as a thought leader and partner in our practice. His commitment to the analytics space at Slalom while juggling a full-time masters program is not easy but has given him even more perspective.

– Kyle Roemer, Practice Leader at Slalom

ADDITIONAL EXPERIENCE

Learning Data Science, Founder

San Francisco, CA

August 2016 – Present

Founded Learning Data Science to train aspiring Data Scientists through workshops and online courses.

Springboard, Expert Mentor

Washington, D.C.

February 2015 – February 2016

One-on-one mentor for Data Science Intensive in R and Python.

Lockheed Martin, Engineering Analyst

Fort Worth, TX

July 2011 – January 2012

Conducted analysis on the operational quality of the supply base for the Joint Strike Fighter (JSF) airframe.

Johnson and Johnson, Supply Chain Analyst (Co-Op)

Somerset, NJ

January 2011 – June 2011

Analyzed the costs and benefits associated with the construction of a dedicated return center.