JOSIAH DAVIS

DATA SCIENTIST

EDUCATION

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

August 2016 - May 2017

- Project and course work in causal inference, machine learning, optimization and linear modeling.
- Managed workload of full-time program while working as an employee of Slalom.

Technical University of Denmark

August 2010 - December 2010

• Study abroad, coursework in robotics, java, and partial differential equations.

B.S., Mechanical Engineering - University of Maryland

August 2006 - Spring 2010

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

EXPERIENCE

Slalom Consulting, Data Scientist

San Francisco, CA

May 2015 - Present

- Created a machine learning pipeline that included customer segmentation, time-series analysis, machine learning, variance propagation, and model validation (R tidyr, purrr, earth, ggplot2, rpart, randomForest, data.table).
- Conducted an exploratory analysis that studied customer bias through the sentiments captured in yelp reviews
 (Python NLTK, scikit-learn; R tm, stringr, openNLP, syuzhet, plyr).
- Designed a new measure of company performance: came up with the idea of using the Gini coefficient to measure
 the concentration in workload and asset distribution in various business segments (Python pandas).

Learning Data Science, Founder

San Francisco, CA

August 2016 - Present

- Provided corporate workshops on topics within Data Science including machine learning, linear modeling, and statistical programming (Python pandas, scikit-learn, statsmodels, matplotlib, numpy).
- Created online e-mail mini-course with free instruction and guidance for breaking into the field of Data Science (<u>learningdatascience.com</u>).

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).
- Rated by students as one of the top 2 Data Science instructors nationwide.

Deloitte Consulting, Data Scientist

February 2012 - May 2015

Washington, D.C.

- Earned the outstanding performance award 2x for client work that included creating and presenting technical deliverables to director-level clients.
- 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 for the Federal government using survival analysis (R)

SlideRule, Data Science Expert Mentor

Washington, D.C.

February 2015 - February 2016

Lockheed Martin, Engineering Analyst

Fort Worth, TX

July 2011 - January 2012

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

Somerset, NJ

January 2011 - June 2011

ACCOLADES

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

SKILLS

Causal Inference	Machine Learning	Statistics	Programming
 Directed Acyclic Graphs 	Clustering	Linear Modeling	Python - pandas
 Potential Outcomes 	 Decision Trees 	Model Checking	Python - scikit-learn
 Backdoor Criteria 	 Random Forests 	 Regularization 	Python – numpy
 G-computation formula 	Adaboost	 General Linear Modeling 	Python - matplotlib
 Super Learning 	 Ensemble Learning 	 Hypothesis Testing 	R - dplyr/tidyr
 Targeted Maximum Likelihood Estimation 	Cross-validation	Bootstrapping	R - ggplot2
	Natural Language Processing		R - rpart/randomForest
			■ R – earth
			R - devtools/roxygen2