**Josiah Davis**

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**Education**

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

**August 2016 – May 2017**

* Team lead for course projects in causal inference, optimization and statistical programming.

**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.

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**Slalom Consulting**, Lead 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 multi-level machine learning (R – earth, rpart, tidyr, purrr).
* 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).
* Presented at “Effective Applications of R Language” Conference in Boston, MA on Natural Language Processing in R.

**Deloitte Consulting**, Data ScientistWashington, D.C.

**February 2012 – May 2015**

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

* Created tree-based machine learning models to predict the probability of rework (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 InstructorWashington, D.C.

**October 2014 – May 2015**

Co-instructor for two iterations of the [66-hour course](https://generalassemb.ly/education/data-science?where=washington-dc) on Data Science covering the data science pipeline with a focus on supervised and unsupervised machine learning (Python – scikit-learn, pandas, numpy, matplotlib, statsmodels).

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| **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 |