JOSHUA J FINK

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RESUME 2016

Profile

A data and social scientist interested in using modern Bayesian statistics and computational methods to study consumer behavior, sports, stratification processes, and the police and law enforcement.

Education

**Ph.D.,
Sociology**

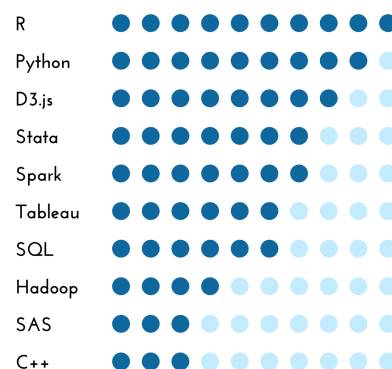Duke University,
Expected 2016

**M.S.,
Statistical Science**

Duke University,
Earned 2015

**B.A.,
Sociology**

Pepperdine University,
Cum Laude 2011

Expertise

I specialize in data visualization and building Bayesian statistical models for prediction and estimation using samplers based on Markov Chain Monte Carlo (MCMC) and other stochastic processes. I also have experience using a variety of clustering algorithms and managing large databases with tools such as Apache Spark. My preferred work-flow would involve R and Python for data cleaning and analysis, and R, Python, or D3.js for visualization. I am also proficient in git/github, Amazon Web Services, and the UNIX shell.

R	●●●●●●●●●●
Python	●●●●●●●●●○
D3.js	●●●●●●●○○○
Stata	●●●●●●○○○○
Spark	●●●●●●○○○○
Tableau	●●●●●○○○○○
SQL	●●●●●○○○○○
Hadoop	●●●●○○○○○○
SAS	●●●○○○○○○○
C++	●●●○○○○○○○

Selected Experience

American Statistical Association: Washington DC
Law & Justice Statistics Research Assistant   **February 2015-present**

Keep track of ongoing research projects for the Law and Justice Committee of the American Statistical Association. Maintain databases and perform statistical analyses related to U.S. crime and policing.

Tastytrade & Dough: Chicago, IL
Data Science Intern   **August 2014-August 2015**

Analyze high volume and velocity finance data, primarily the prices of financial derivatives. Create research segments to be aired on a financial news network featuring data visualizations and inferences.

National Institute of Health/Aging: Durham, NC
Predoctoral Research Fellow   **May 2013-August 2015**

Execute quantitative research on the demography of health and aging. Perform regular presentations of research at conferences and weekly fellow meetings.

WZB, Social Science Center: Berlin, Germany
Research Analyst   **May 2013-August 2013**

Clean, explore, and analyze cross-national data on immigration and law enforcement. Participate in science center discussion sessions and panels related to ongoing research projects of scientists at the Berlin center.

Research

Age Structure and Neighborhood Homicide: A Test of the Differential Institutional Engagement Hypothesis
Dollar,Cindy, Patricia McCall, Kenneth Land, Joshua Fink   **Journal of Quantitative Criminology, R&R**

Race and Consumption: The Role of Structural Constraints and Price in Household Expenditures
Charron-Chénier,Raphaël, Joshua Fink, Lisa A. Keister   **Sociology of Race and Ethnicity, R&R**

Class, Crime, and Latent Classes of Crime: A Bayesian Approach to a Persistent Enigma
Fink, Joshua   **Working Paper**