

JOSHUA J FINK

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RESUME 2015

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,
2015

B.A., Sociology

Pepperdine University,
Cum Laude 2011

Expertise

I specialize in 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	●●●●●●●●●●●●●●●●
Stata	●●●●●●●●●●●●●●●●
Python	●●●●●●●●●●●●●●●●
Tableau	●●●●●●●●●●●●●●●●
Spark	●●●●●●●●●●●●●●●●
D3.js	●●●●●●●●●●●●●●●●
SQL	●●●●●●●●●●●●●●●●
Hadoop	●●●●●●●●●●●●●●●●
C++	●●●●●●●●●●●●●●●●
SAS	●●●●●●●●●●●●●●●●

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, Under Review**

Class, Crime, and Latent Classes of Crime: A Bayesian Approach to a Persistent Enigma

Fink, Joshua

Working Paper