# **JOSHUA J FINK**

#### **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.

Statistical Science

M.S.,

### Education

Ph.D., Sociology

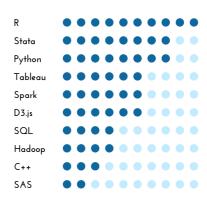
Duke University, Duke University, Expected 2016 2015

# 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 workflow 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.



# 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. PErofmr 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