

# 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

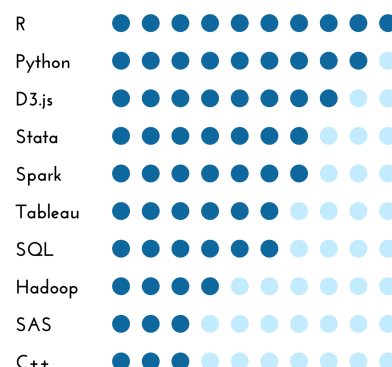
Duke University,  
Earned 2015

#### B.A., Sociology

Pepperdine University,  
Cum Laude 2011

### Expertise

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



### Selected Experience

#### Sports Franchise: (Non-disclosure agreement)

Data Scientist and Analytics Consultant

February 2016-present

Perform player analysis and create interactive JavaScript visualization dashboards to be used by front office personnel and coaches.

#### American Statistical Association: Washington, DC

Law & Justice Statistics Data Scientist

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.

#### National Institute of Health/Aging: Durham, NC

Predocctoral 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.

### Published Research

#### Race and Consumption: Examining the Role of Structural Price Constraints with Hybrid Effects Models

Charron-Chénier, Raphaël, Joshua Fink, Lisa A. Keister

Sociology of Race and Ethnicity

#### Age, Structure, and Neighborhood Homicide: A Latent Trajectory Model of the Differential Institutional Engagement Hypothesis

Dollar, Cindy, Patty McCall, Ken Land, Joshua Fink

Journal of Quantitative Criminology, R&R

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

Fink, Joshua

Criminology, under review

