JOSHUA J FINK

PHD CANDIDATE, STATISTICIAN, AND NBA ANALYST

PROFILE

A data scientist and statistician interested in using modern Bayesian computational methods and data visualization techniques to expand and contribute to sports analytics and social science.

EDUCATION

**Ph.D.,
Sociology**

Duke University,
Expected 2016
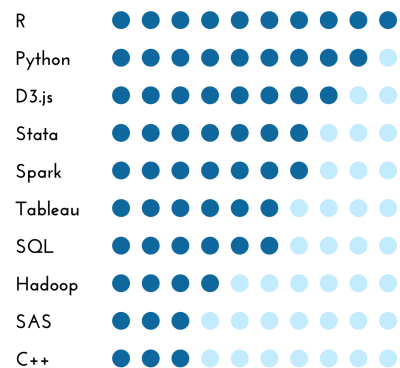
**M.S.,
Statistical Science**

Duke University,
Earned 2015

**B.A.,
Sociology + Stats**

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.

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

SELECTED EXPERIENCE

San Antonio Spurs
Data Visualization & Analytics Fellow — **August 2016-present**

Perform Bayesian voodoo with basketball data and draw pretty pictures with Kirk Goldsberry

San Antonio Spurs
Data Visualization and Statistics Consultant — **February 2016-August 2016**

Analyze player tracking data from Synergy & Second Spectrum datasets, create interactive javascript visualization dashboards to be used by front office personnel and coaches, build predictive models of player performance.

American Statistical Association: Washington, DC
Law & Justice Statistics Committee Data Analyst and Researcher — **February 2015-present**

Maintain databases and perform statistical analyses related to U.S. crime and policing, with a significant focus on implementing Machine Learning techniques.

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**