

# Jonathan Skaza

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## EDUCATION

### UNIVERSITY OF MICHIGAN

#### MS IN BIOSTATISTICS

April 2017 | Ann Arbor, MI

### BRYANT UNIVERSITY

#### BS IN APPLIED MATHEMATICS & STATISTICS, APPLIED ECONOMICS

May 2015 | Smithfield, RI  
 Summa Cum Laude

## COURSEWORK

### GRADUATE

Advanced Inference  
 Bayesian Inference  
 Biostatistical Inference  
 Epidemiologic Methods  
 Generalized Linear Models  
 Linear Regression  
 Longitudinal Data Analysis  
 Machine Learning  
 Probability and Distribution Theory  
 Statistical Computing  
 Survival Analysis

### UNDERGRADUATE

Calculus I & II  
 Data Mining  
 Design of Experiments  
 Econometrics  
 Linear Algebra  
 Mathematical Statistics I & II  
 Multivariate Statistics  
 Number Theory  
 Real Analysis  
 SAS Programming  
 Statistics I & II

## AWARDS

2015 SAS Certificate in Data Mining  
 2015 SAS Institute Award  
 2015 Excellence in Economics Award

## SOCIETIES

American Statistical Association  
 Mu Sigma Rho  
 Kappa Mu Epsilon

## EXPERIENCE

### UNIVERSITY OF MICHIGAN | DATA SCIENTIST

September 2017 – Present | Ann Arbor, MI

Work involving longitudinal data analysis, functional data analysis, Bayesian hierarchical modeling, data visualization, and data wrangling. Collaborations with University of Michigan Department of Psychiatry and Drexel University Urban Health Collaborative.

### UNIVERSITY OF MICHIGAN | GRAD. STUDENT RESEARCH ASSISTANT

September 2015 – August 2017 | Advisor: Brisa Sánchez | Ann Arbor, MI

Worked on statistical methods and applications in modeling cortisol, a biomarker of stress, as part of a large psychiatric study. Member of Biostatistics for Social Impact lab.

### BRYANT UNIVERSITY | UNDERGRADUATE RESEARCH ASSISTANT

Mar 2014 – December 2014 | Advisor: Edinaldo Tebaldi | Smithfield, RI

Projects included econometric analyses concerning the economic impact of children, the education system, and the defense industry in the state of Rhode Island.

### NC STATE UNIVERSITY | SUMMER INSTITUTE IN BIOSTATISTICS

June 2014 – July 2014 | Raleigh, NC

Explored the field of biostatistics through lectures, statistical computing labs, and data analysis project. Sponsored by NHLBI and NCATS.

### ZEPTOMETRIX CORPORATION | MANUFACTURING LAB INTERN

June 2013 – August 2013 | Franklin, MA

Performed a series of tasks in the process of infectious disease diagnostic development.

### STATE STREET CORPORATION | US INVESTMENT SERVICES INTERN

June 2012 – August 2012 | Boston, MA

Worked as a fund accountant within the Money Markets Division.

## COMPUTING SKILLS

### PROGRAMMING

Python • R • C++ • SAS • Stata • Stan • WinBUGS •  $\text{\LaTeX}$

### STATISTICAL PACKAGES

Minitab • SAS E-Miner • Tableau

## PUBLICATIONS

Wiens et al. (2017). **The Advantage of Doubling: A Deep Reinforcement Learning Approach to Studying the Double Team in the NBA.** MIT Sloan Sports Analytics Conference  
 Skaza, J. and Blais, B. (2016). **Modeling the Infectiousness of Twitter Hashtags.** Physica A  
 Beaudin, L. and Skaza, J. (2015). **Measuring the total impact of demographic and behavioural factors on the risk of obesity accounting for the depression status: a structural model approach using new BMI.** Applied Economics  
 Skaza, J. and Blais, B. (2013). **The relationship between environmental degradation and economic growth: exploring models and questioning the existence of an Environmental Kuznets Curve.** Bryant University Center for Global and Regional Economic Development Working Paper Series