Jonathan Skaza

Data Scientist

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jskaza

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@SkazaSays

About me

I am a Data Scientist in the Department of Biostatistics at the University of Michigan. I received my M.S. in Biostatistics from the department in 2017. I am currently working on statistical methods and applications in the modeling of cortisol, a biomarker of stress. Additionally, I am a member of the Biostatistics for Social Impact (B4SI) group at Michigan. I completed my undergraduate work at Bryant University, graduating with a B.S. in Applied Economics and Applied Mathematics & Statistics. I maintain a blog where I post statistical analyses, many of which relate to sports.

Skills

Python • R • C++ • SAS • Stata • WinBUGS • Stan • LaTeX • Tableau • HTML

Interests

Statistical Computing • Machine Learning • Reproducible Research • Bayesian Inference • Data Analysis • Statistical Analysis of Big Data • Mental Health Statistics • Statistics in Sports • Basketball Analytics

Miscellaneous

2018 Gupta Family Hackathon

2015 SAS Certificate in Data Mining

2015 SAS Institute Award

2015 Excellence in Economics Award

Experience

2017-Pres. University of Michigan — Ann Arbor, MI
Data Scientist
Conducted statistical research 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.

2015-2017 University of Michigan — Ann Arbor, MI
Graduate Student Research Assistant
Developed 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.

2014 Bryant University — Smithfield, RI
Undergraduate Research Assistant
Implemented econometric analyses concerning the economic impact of children, the education system, and the defense industry in the state of Rhode Island.

2014 NC State University — Raleigh, NC
Summer Institute in Biostatistics
Explored the field of biostatistics through lectures, statistical computing labs, and data analysis project. Sponsored by NHLBI and NCATS.

2014 Zeptometrix Corporation — Franklin, MA
Manufacturing Lab Intern
Performed a series of tasks in the process of infectious disease diagnostic development.

2014 State Street Corporation — Boston, MA
US Investment Services Intern
Worked as a fund accountant within the Money Markets Division.

Education

2017 University of Michigan — Ann Arbor, MI
M.S., Biostatistics

2015 Bryant University — Smithfield, RI
B.S., Applied Mathematics & Statistics, Applied Economics
Summa Cum Laude

Publications

Wang, J., Fox, I. Skaza, J., Linck, N., Singh, S. and Wiens, J. (2018). 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