Jonathan Skaza

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jskaza

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About me

I enjoy using my passion for programming and statistics to attack complex problems in an elegant and reproducible manner.

I am an *Associate Director of Product Management* at Panalgo, a software company headquartered in Boston, MA. I use my background in data science to contribute to various components of our industry-leading healthcare analytics platform. I've had the privilege to leverage my skills in various aspects of the business as our web application has matured. My contributions relate to new feature development, the product roadmap, bug fixes, reusable code snippets, technical documentation, product analytics, and customer support.

Skills

Python • R • Go • Julia • Nim • Git • SQL • MongoDB • LaTeX

Interests

Software Development • Computational Statistics • Machine Learning • Reproducible Research • Workflow Automation

Credentials

2023 Introduction to SQL

2022 Programming with Google Go Specialization

2018 Sanjay Gupta Family Hackathon Winner

2015 SAS Certificate in Data Mining

2015 SAS Institute Award

2015 Excellence in Economics Award

Experience

2018-Pres. Panalgo — Boston, MA
Assoc. Director, Lead Analyst, Sr. Analyst, Analyst II
Worked with clients implementing various types of healthcare studies, with engineers to enhance our product, with machine learning experts to implement new algorithms, with product leaders to develop roadmaps, and with business analysts to understand user behavior. Extensive experience as a Solutions Engineer.

2017-2018 University of Michigan — Ann Arbor, MI
Data Scientist
Conducted 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.

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

Mayer et al. (2019) How does hair cortisol assessment correspond to saliva measures and to lab-based probes of HPA axis regulatory function? Psychoneuroendocrinology

Abelson et al. (2019). Does salivary cortisol reflect key regulatory control aspects HPA axis functioning in healthy humans? Psychoneuroendocrinology

Abelson et al. (2019). Daily diurnal salivary curves: Are they too noisy to be useful? Psychoneuroendocrinology

Wang, J. et al. (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