

Jonathan Skaza



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<https://jskaza.github.io/>



jskaza



/in/jonathanskaza



@SkazaSays



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jonskaza



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About me

I enjoy using my passion for Computing and Data Science to attack complex problems in an elegant and reproducible manner. Currently, I use my background in Data Science to contribute to various components of Panalgo's industry-leading healthcare analytics platform.

Skills

Python (NumPy, Pandas, scikit-learn, Keras) • R (tidyverse) • Go • Julia • Nim • Git • SQL • MongoDB • \LaTeX • Notion • Jira

Interests

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

Credentials

- 2023 *fast.ai* Practical Deep Learning for Coders
- 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
Associate Director, Product
Panalgo develops software for Real-World Evidence (RWE) studies. The company maps massive healthcare claims and EHR datasets into a data model and provides a web application to drastically simplify and accelerate patient-level analysis. I have worked with clients to implement various types of healthcare studies, engineers to enhance the product, machine learning experts to implement new algorithms, product leaders to develop roadmaps, and business analysts to understand user behavior.
- 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
- 2014 NC State University & Duke University Raleigh, NC
Summer Institute in Biostatistics

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