






Jonathan Skaza

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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 primary contributions relate to new feature development, the product roadmap, bug fixes, reusable code snippets, technical documentation, and customer support.

Skills

R • Python • Julia • Hugo • \LaTeX • Git • MongoDB • XQuery

Interests

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

Miscellaneous

2018 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
Design, implement, and test features to improve our software. Manage user-facing R & XQuery code snippet repository. Answer customer support tickets on a variety of topics ranging from basic login troubleshooting to API connections.
- 2017-2018 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.

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