Luke Benz

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EDUCATION

Yale University 2015-2019

B.S. Applied Mathematics

- Phi Beta Kappa (Early Selection, Fall 2018)
- Summa Cum Laude

EXPERIENCE

Medidata Solutions—New York, NY Statistical Analyst/Data Scientist

August 2019 - Present

GPA: 3.97/4.00

- Develop models to select sites for clinical trials and forecast enrollment and major milestones over the duration of the study.
- Built survival models to predict patient dropout and research factors associated with dropout in Alzheimer's Disease clinical trials.
- Designed Python data pipeline for identifying various data transformations necessary to standardize and combine data across clinical trials.
- Maintain and develop NLP model to perform value level standardization of clinical data utilizing reinforcement learning techniques.

Yale School of Public Health—New Haven, CT Biostatistics Research Assistant

June 2016 - May 2019

- Research assistant for Elizabeth Claus MD, PhD
- Analyzed quality of life data for cancer patients with meningioma and low-grade glioma.
- Managed the recruitment and enrollment for the International Low Grade Glioma Registry.

National Institute of Standards and Technology—Gaithersburg, MD Summers 2017 and 2018 Summer Undergraduate Research Fellow

- Research fellow in Information Technology Lab Statistical Engineering Division for Dr. Antonio Possolo (2018) and Dr. Andrew Rukhin (2017).
- Built NIST Homogeneity Assessor (NIHOMA), an R Shiny web application for exploring homogeneity of candidate reference materials using linear, Gaussian random effects model.
- Explored techniques for estimating heterogeneity variances in order to improve methods for combining results in collaborative studies with unreliable reported uncertainties.

PUBLICATIONS

Claus, E., Feliciano, J. **Benz, L.**, Calvocoressi, L. "Social media partnerships with patient organizations for neuro-oncology patient recruitment." *Neuro-Oncology Practice*. (2019) **Link**

Benz, L.S., Wrensch, M.R., Schildkraut, J.M., Bondy, M.L., Warren, J.L., Wiemels, J.L. and Claus, E.B. (2017), Quality of life after surgery for intracranial meningioma. *Cancer*, 124: 161-166. Link

PRESENTATIONS

Benz, Luke "An Examination of Timeout Value, Strategy, and Momentum in NCAA Division 1 Men's Basketball." Plenary talk presented at *Electronic Undergraduate Statistics Research Conference*. (November, 2019).

Benz, Luke "An Examination of Timeout Value, Strategy, and Momentum in NCAA Division 1 Men's Basketball." Poster presented at *New England Sympossium of Statistics in Sports*. Harvard University, Cambridge, MA (September, 2019).

Benz, L., Senders, J., Wefel, J., and Claus, E. "The International Low Grade Glioma Registry Patient-Reported Quality of Life." Poster presented at *Society for Neuro-Oncology Annual Scientific Meeting*, New Orleans, LA (October, 2018).

SKILLS

Programming Languages and Frameworks R, Python, SQL, C, R/Shiny, LATEX

SOFTWARE

ncaahoopR An R package for working with NCAA Basketball Play-by-Play Data. https://github.com/lbenz730/ncaahoopR

AWARDS AND HONORS

Undergraduate Statistics Project Competition, American Statistical Association Spring 2019 First place research project for senior thesis, "An Examination of Timeout Value, Strategy, and Momentum in NCAA Division 1 Men's Basketball."

Statsketball Contest, American Statistical Association Build Your Own Bracket Draft Challenge 2018 College Winner April 2018

George J. Schulz Fellowship for the Natural Sciences, Yale University

Summer 2016

Michael Manzela Fellowship Supporting Cancer Research, Yale University

Summer 2016