

Luke Benz

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EDUCATION

Yale University

B.S. Applied Mathematics

2015-2019

GPA: 3.97/4.00

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

EXPERIENCE

Medidata Solutions—New York, NY

Statistical Analyst/Data Scientist

August, 2019 - Present

- Build survival models to predict patient 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

Summer Undergraduate Research Fellow

Summers 2017 and 2018

- 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

Elizabeth Claus, Josemari Feliciano, **Luke Benz**, Lisa Calvocoressi. "Social media partnerships with patient organizations for neuro-oncology patient recruitment." *Neuro-Oncology Practice*. (2019)

Luke Benz, Margret Wensch, Joellen Schildkraut, Melissa Bondy, Joshua Warren, Joseph Wiemels, Elizabeth Claus. "Quality of life after surgery for intracranial meningioma." *Cancer*. 124:1 (2018) 161-166. <https://doi.org/10.1002/cncr.30975>

PRESENTATIONS

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

Luke Benz, Joeky Senders, Jeffrey Wefel, and Elizabeth Claus. “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, L^AT_EX

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 *April 2018*
Build Your Own Bracket Draft Challenge 2018 College Winner

George J. Schulz Fellowship for the Natural Sciences, Yale University *Summer 2016*

Michael Manzela Fellowship Supporting Cancer Research, Yale University *Summer 2016*