

Charles Bower, MS

Curriculum Vitae

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ABOUT ME

With a strong academic foundation in public health, I have pursued a rewarding career in healthcare through clinical research and statistical analysis. I am passionate about using statistics to drive evidence-based decisions that improve health outcomes.

It is my belief that an analyst's job is to speak for data which has no means to speak for itself. Through statistics we can extract language from numbers to progress science and medicine.

WORK EXPERIENCE

CURRENT, FROM MAR 2024 (FT)

Children's of Alabama *Clinical Data Analyst*

Monitor and analyze data for hospital acquired conditions. Tasked with utilizing various software to conduct statistical analysis for ongoing quality improvement projects. Accurately present data and recommended steps to reduce hospital acquired harm.

OCT 2021 – MAR 2024 (FT)

University of Alabama at Birmingham *Level 2 Clinical Research Coordinator*

This position involved conducting the day to day operations of randomized clinical trials at the sponsor and investigator level as well as statistical analysis for investigator led trials and statistical consulting for resident led research. My day to day job varied widely, including hands on clinic experience, data collection and entry, and data analysis. Areas of study included Oncology and Otolaryngology

AUG 2023 – MAY 2024 (PT)

University of Alabama at Birmingham *Teaching Assistant - Biostatistics*

Tutor and teach undergraduate level biostatistics students. Assisted professor with 50 students in a class size of 100.

JAN 2020 – OCT 2021 (FT)

Clinical Research Center of Alabama *Clinical Research Coordinator*

Oversee and conduct the day to day operations of randomized clinical trials in various fields such as Immunology, asthma, and rare disease.

MAY 2018 – JAN 2020 (FT)

Pack Health *Cardiometabolic Health Advisor*

Telehealth focused patient education for various cardiometabolic conditions. My responsibility was to educate and work with patients who were newly diagnosed or struggling to control their condition.

EDUCATION

MAY 2022 – MAY 2024

Master of Science

3.77 GPA

Applied Biostatistics and Epidemiology
University of Alabama at Birmingham

AUG 2014 – MAY 2018

Bachelor of Science

Public Health

University of Alabama at Birmingham

SKILLS

Statistical Analysis

Skilled in conducting statistical analysis using tools such as SAS, R, and JMP. Able to perform diverse statistical tests, including ANOVA, linear regression, survival analysis, and non-parametric tests, to draw meaningful conclusions from research data.

Data Management

Experienced in handling large datasets, ensuring data quality, and conducting data cleaning and transformation for accurate analysis and interpretation.

Research Communication

Effective in conveying complex statistical findings to diverse audiences, facilitating understanding and informed decision-making by stakeholders and policymakers.

Study Design

Strong ability to create statistical analysis plans and design effective research studies.

Technical Skills

Intermediate to advanced level knowledge of the following software: SAS, SPSS, R, JMP, Minitab, Excel, SQL, LaTeX, and PowerBI.

SOFTWARE SKILLS

BEGINNER Python

INTERMEDIATE R, PowerBI, L^AT_EX, Minitab, JMP

EXPERT Excel, SQL, SAS, SPSS