

McKenzie Hebert

kenzihebert@gmail.com | [linkedin.com/in/mckenzie-hebert1](https://www.linkedin.com/in/mckenzie-hebert1) | github.com/kenzihebert

PROFESSIONAL SUMMARY

MS Biostatistics student at the University of Michigan (B.S. Data Science, 2026) with experience in predictive modeling, time series forecasting, and statistical analysis of clinical and public health data. Applied ANOVA, SARIMA, and regression-based methods to infectious disease surveillance and breast cancer recurrence prediction, and conducted sequence analysis on longitudinal aging cohort data. Seeking a biostatistics or statistical programming internship/role in pharma or biotech, with a focus on applying rigorous statistical methods to clinical trial and public health data.

EDUCATION

Master of Science in Biostatistics

Expected May 2028

University of Michigan School of Public Health

Ann Arbor, Michigan

- Relevant Coursework: Linear Regression Theory, Probability and Inference, Epidemiology

Bachelor of Science in Data Science, Bachelor of Science in Anthropology

Graduated May 2026

Arizona State University

Tempe, Arizona

- Graduated from Barrett, the Honors College Summa Cum Laude (GPA 4.0)

BIostatISTICS RESEARCH EXPERIENCE

Undergraduate Research Assistant

August 2025 - Present

Arizona State University DESERT Aging Lab

Tempe, Arizona

- Conduct sequence analysis in R on a dataset of 144 older adults with 812 days of observations (6 time points over 7 days, 3+ recorded per day) to examine relationships between daily activity patterns and sleep quality
- Draft manuscript sections and prepare figures/abstracts for a peer-reviewed publication and the SBSM 2026 Annual Scientific Meeting
- Perform literature reviews and create visualizations for weekly research team presentations

Undergraduate Research Assistant

June 2025 - August 2025

University of Michigan Big Data Summer Institute

Ann Arbor, Michigan

- Collaborated on developing an XGBoost machine learning model to predict breast cancer recurrence risk using a dataset of 922 anonymized patients with 98 variables, integrating clinical and MRI imaging data
- Evaluated model performance using Brier score (0.07) and AUC (0.75), selecting Brier score as the primary metric to assess calibration of predicted recurrence probabilities
- Designed and deployed an interactive R Shiny application to visualize recurrence risk for patients and clinicians

DATA SCIENCE EXPERIENCE

Data Science Intern

Arizona State University Swim and Dive Team

September 2024 - May 2025

- Built predictive models in R and Python to analyze performance metrics and optimize training load and recovery, contributing to 5+ personal bests during the season
- Collaborated with 7 student interns and 4 coaches to translate analytical findings into actionable strategies for performance improvement

Forecasting Seasonality and Magnitude of Influenza

Data Science Capstone, Class Project

August 2025 - December 2025

- Modeled seasonal influenza-like illness (ILI) incidence using SARIMA, applying differencing and a 52-week seasonal component to national CDC surveillance data to characterize recurring outbreak cycles
- Conducted one-way ANOVA to test for significant differences in mean ILI incidence across pediatric age groups and geographic subregions, informing population-level risk stratification for hospital resource planning

LEADERSHIP AND VOLUNTEER WORK

Statistics in the Community (STATCOM) Volunteer

September 2026 - Present

- Pro-bono statistical consulting work for various nonprofit organizations in the Ann Arbor area

Delta Zeta Sorority, Vice President of Academics

November 2023 - November 2024

- Oversee academic success for 330+ members, develop academic success programs through various initiatives and rewards, increasing the semester cumulative GPA from 3.15 to 3.22

SKILLS

- Statistical Methods: ANOVA, regression analysis, time series (SARIMA/ARIMA), sequence analysis, hypothesis testing, survival analysis
- Software and Packages: R, Python, SQL, Excel, Tableau, SAS (in progress), R Shiny, ggplot2, scikit-learn