

# MACKENZIE MUELLER

[www.linkedin.com/in/me-mueller](https://www.linkedin.com/in/me-mueller) | <https://mueller-mackk.github.io/> | [macmuell@umich.edu](mailto:macmuell@umich.edu)

## EDUCATION

**Master of Science Biostatistics (50% Funded)** | University of Michigan, *Ann Arbor, MI.* | *May 2026*

**GPA: 3.8**

**BS Mathematics, BA Hispanic Studies** | Pacific Lutheran University (PLU), *Tacoma, WA.* | *May 2024*

**GPA: 3.95**

## AWARDS/HONORS

**50% Tuition Funding, University of Michigan Biostatistics Department**

- Attained **50%** tuition scholarship due to academic achievement, renewable for program cycle on basis of GPA

**WANG CENTER RESEARCH GRANT Recipient** (amount: **\$3,000**) *Puerto Rico* | *Jan 2024*

- Qualitative analysis: how changes in STEM education have affected engagement & accessibility for female students
- Conducted interviews with non-profits & teachers in San Juan with Human Participants Research Board approval

**American Statistical Association DataFest Competition 2nd Place** | *(Spring, 2023)*

- Analyzed data from the American Bar Association using text analysis and data cleaning techniques to extract valuable insights and develop an impactful and ethical **data visualization** in RStudio's **ggplot**

## STATISTICAL ANALYSIS + RESEARCH EXPERIENCE

**Statistics & Decision Sciences Internship**, Johnson & Johnson | *Summer 2025*

- Applied statistical techniques using R Statistical Software to address missing data on a current Phase 0 Digital Health Technology Study on Atopic Dermatitis

**Multiple Linear Regression Inference**, Linear Regression Final Project | *Fall 2024*

**"The Impact of Sleep Trouble and Other Lifestyle and Health Factors on HDL Cholesterol"**

- Applied key concepts including: Linear Regression Assumptions, Interactions, Model Selection, Model Diagnostics, Outliers, and Influence Points to create an inference model on HDL Cholesterol (written report: **10 pages**)

**STATCOM Volunteer**, University of Michigan | *2024*

- Collaborated with the Center for Success (Ann Arbor) to analyze and summarize survey data from students and mentors, providing actionable insights to improve mentoring programs through data visualization

**Statistics Capstone Project: "Handling Missing Data in Epidemiology Research,"** PLU | *May 2024*

- Constructed tap water consumption linear regression models utilizing data from the National Health and Nutrition Examination Survey to demonstrate how **multiple imputation** can handle missing data (written report: **20 pages**)

**Big Data Summer Institute Research Intern**, University of Michigan | *Summer 2023*

**"Predicting Survival Time of LGG Patients: Refining Feature Selection Methods"**

- Collaborated with research group to analyze relationship between gene pathways & survival time for Low Grade Glioma (LGG) patients (utilized cross validation, linear regression, feature selection, Kaplan-Meier survival plots)

**Data Management Intern Volunteer**, Servicios Financieros Alternativos, Oaxaca, Mexico | *Spring 2022*

- Engaged in and promoted a non-profit microloan organization specializing in providing access to self-starting businesses/indigenous groups. Tasks included balancing spreadsheets, organizing documents, and field visits

## WORK EXPERIENCE

**BDSI Media Intern**, University of Michigan | *September 2024 - Present*

- Restructured BDSI website to assist in the grant application process for the continuation of the BDSI summer program, managed company BDSI LinkedIn, and assisted with RedCap application portal

**Mathematics Tutor & Paper Grader**, Pacific Lutheran University | *September 2022-May 2024*

- Provided guidance to students in group/individual settings, assisting them with struggles in mathematics coursework. Collaborated with two professors for their respective courses on grading homework assignments

**Summer Camp Counselor**, Flathead Lutheran Bible Camp, Lutherhaven Summer Ministries | *Summers 2022, 2024*

- Demonstrated leadership and organizational skills, led activities for campers while ensuring a safe and enjoyable experience at overnight summer camp. Included CHAMP camp (specifically working with kids with special needs)

## SKILLS AND QUALIFICATIONS

- Software: R, Python, Java, SAS, C++, LaTeX
- Coursework: Calculus, Linear Regression, Survival Analysis, Categorical Analysis, Epidemiology, Probability Theory
- Professional Skills: Excellent Communication, Presentation and Leadership Skills, Organization, Time Management