

# Maya G. Watanabe

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## EDUCATION

University of Michigan, School of Public Health  
Master of Science, Biostatistics, GPA 3.7/4.0

Candidacy May 2023

University of Massachusetts, Amherst, Commonwealth Honors College  
Bachelor of Science, Mathematics  
Bachelor of Arts, English  
Minor, Computer Science

May 2021

## TECHNICAL SKILLS

Computer Languages: R, Python, SAS, MATLAB, SQL

Statistical Competencies:

- Longitudinal studies
- Regression modeling
- Statistical inference
- Survival models
- Hypothesis testing
- Data visualization

## EXPERIENCE

Graduate Student Research Assistant

September 2020-present

Department of Biostatistics, University of Michigan

- Lead statistical analyses for multiple studies investigating neurological and mental health outcomes in type 1 and type 2 diabetes patients
- Extract relevant information from large data repositories using SQL and SAS for modeling and analysis
- Design and implement data cleaning strategies
- Monitor and maintain several longitudinal study summary analyses

HSR Summer Fellowship

May 2022 – August 2022

Institute for Healthcare Policy and Innovation, University of Michigan

- Investigated relationships between mental health outcomes and microvascular/macrovacular complications in patients with diabetes
- Applied survival analysis and time-varying covariate models to understand psychological and physiological relationships

Summer Research Intern

May 2020 – July 2020

NSF funded REU, Harvey-Mudd College

- Researched and applied Markov chain Monte Carlo (MCMC) estimation techniques
- Implemented MCMC parameter estimation techniques for several non-linear ordinary differential equation biological diabetes models
- Presented reports of progress and results regularly

Computational Research Assistant

September 2019 – May 2021

The Bartlett Laboratory, UMass Amherst

- Designed custom scripts to extract gene sequences from databases and visualize gene phylogenies
- Leveraged bioinformatics and statistical techniques to search for potential novel microproteins within the MADS-box transcription factor family

Writing Tutor

September 2018 – May 2021

University of Massachusetts Amherst Writing Center

- Advised students on technical writing strategies
- Facilitated writing support at all stages of the writing process

## ACTIVITIES

Graduate Student Mentor

September 2022 - present

Department of Biostatistics, University of Michigan

- Mentor incoming Biostatistics graduate students, helping them to adjust to the department life

Diversity, Equity, and Inclusion Committee

September 2021 – September 2022

Department of Biostatistics, University of Michigan

- Assisted in planning and facilitation of department-wide events to promote student inclusion
- Contributed to planning of departmental changes to promote diverse and equitable future recruitment