# OWEN YOO

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## SUMMARY

Motivated and hard-working college student passionate about statistics, data science, and data analytics. Currently pursuing a BS in statistics and data science at the University of Michigan. Intending to gain a graduate degree in biostatistics. I am particularly interested in statistical epidemiology and how machine learning can be applied to issues regarding human health. Seeking opportunities in biostatistics.

## EDUCATION

**University of Michigan** **Ann Arbor, MI**

*Bachelor of Science in Statistics and Data Science, Minor in Music* *May 2026*

- GPA: 4.000
- Treasurer of Michigan Sports Analytics Society, Member of Michigan Undergraduate Students of Statistics
- Achievements: William J. Branstrom Award (2023), University Honors (2022, 2023), Scholarship to attend the MIT Sloan Sports Analytics Conference (2024)

## EXPERIENCES

**Health and Retirement Study at the Institute for Social Research at the University of Michigan**

*Research Assistant* *September 2023 - Present*

- Managing organization of health and demographic qualitative data through coding, ensuring accurate portrayals of responses from survey participants as they are integrated into the Health and Retirement Study database
- Collaborating with the Principal Investigators and the Data Processing team by arranging data into concise format to ensure team alignment on respondents' data on the impact of their health in their careers
- Maintaining strict ethical standards while handling patient's sensitive personal health and employment data

**University of Michigan College of Engineering**

*Grader - EECS 183 (Elementary Programming Concepts)* *September 2023 - Present*

- Responsible for grading 50+ students' coding projects on topics including conditionals, arrays, classes, and strings for legibility and organization

## PROJECTS

**Factors That Influence Kicker's Accuracy and the Best Kickers in the NFL (2017– 2022 season)**

*R Programming* *January - March 2023*

- Project created for 2023 Michigan Sports Analytics Society Symposium by utilizing data from nflFastR along with "Tidyverse" and "vip" libraries for in-depth analysis of field goal attempts from 2017-2022 NFL seasons
- Employed Logistic Regression to identify contributing factors to kickers' accuracy and success rates of field goal attempts, identifying top NFL kickers using a "Total Over Expected" model and calculating the model using summations of binary value regarding field goal status subtracted by field goal probability

**COVID-19 Analysis**

*R Programming* *July - August 2023*

- Capstone project for Coursera Specialization, analyzing trends in worldwide COVID cases and resulting deaths using data from Johns Hopkins University's Center Systems Science and Engineering and the New York Times, heavily leveraging relational databases in the "Tidyverse" library and noting ensuing results using R markdown
- Utilized the "ggplot2" library for comprehensive data visualization, facilitating the comparison of COVID case and death rates across multiple states and countries

## CERTIFICATIONS & SKILLS

- Expressway to Data Science: R Programming and Tidyverse by the University of Colorado Boulder on Coursera
- Proficient in R and C++, Amateur experience with SAS and Python
- University of Michigan: Responsible Conduct of Research and Scholarship (RCRS) Training & PEERRS: Human Subjects Protections
- Fluent in English and Korean