Serena Warner

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serenawarner.github.io

Undergraduate researcher focused on the intersection of machine learning and
personality theory. Passionate about applying computational models to cognitive
and identity-related phenomena.

EDUCATION

The College of Wooster, Wooster, OH
 B.A. in Computer Science, Expected May 2026

- GPA: 3.811
- Relevant coursework: Machine Intelligence, Linear Algebra, Graph Theory and
  Combinatorics, Data Structures and Algorithms, Applied Integral Calculus, Applied
  Differential Calculus, Data Visualization

RESEARCH EXPERIENCE

Senior Independent Study (in progress): *Predicting Personality from Survey Data using
Unsupervised Modeling* — The College of Wooster
Fall 2025 – Present

- Applying unsupervised models to explore patterns in personality survey data, aiming to
  identify emergent personality clusters beyond typological systems.

Junior Independent Study: *Predicting Myers-Briggs Types with Cognitive Functions and Text
Input* — The College of Wooster
Spring 2025

- This Independent Study project applies supervised machine learning, specifically Support
  Vector Machines (SVM) and Logistic Regression, to classify Myers-Briggs personality
  types based on forum text. Instead of using the four-letter MBTI format, this project uses

cognitive function theory, as introduced by Carl Jung and further developed by John Beebe, to model six different function-based classification schemes.

Diabetes Diagnosis Factors Analysis — Applied Statistics, The College of Wooster
Fall 2024

- I analyzed a dataset using the Behavioral Risk Factor Surveillance System (BRFSS) collected by the Centers for Disease Control and Prevention (CDC) focused on analyzing which medical and lifestyle factors can impact having a diabetes diagnosis. Through logistic regression, I found that diabetes diagnosis has relationships with age, high blood pressure, high cholesterol, physical activity, heavy alcohol consumption, and income.

Prediction Modeling for Union Rugby Match Results — Machine Intelligence, The College of Wooster
Fall 2024

- Developed and evaluated multiple ML models to predict rugby match outcomes; decision tree model achieved highest performance with 75% accuracy.

TECHNICAL SKILLS

Github: github.com/serenawarner
Programming: Python, R, Java, HTML/CSS (basic)
Libraries/Frameworks: scikit-learn, pandas, NumPy, Matplotlib, TensorFlow
Tools: Git, Jupyter Notebooks, LaTeX

WORK & LEADERSHIP EXPERIENCE

STEM Success Initiative Intern – Wooster, OH
Summer 2025 – Spring 2026

- Chosen to lead STEM Zone events and social media representation.

STEM Zone Intern – Wooster, OH
Fall 2023 – Spring 2026

- Provided 1-on-1 support for 20+ students per semester in computer science topics, such as Python and Data Structures, adapting strategies based on individual learning needs

Teaching Apprentice – Wooster, OH
Fall 2024, Fall 2025

- Provided in-class support and individual guidance to students during lectures and activities and held weekly office hours to assist students with course concepts, assignments, and exam preparation for CSCI-102 Introduction to Multimedia Computing with Professor Alex Nord and Professor Dan Palmer
- Selected as Teaching Apprentice for FYSM-10100 Technology in Society with Dr. Heather Guarnera (Fall 2025), supporting first-year students in academic and social transition to college.

Google Developer Student Club Vice President – Wooster, OH
Fall 2025 – Spring 2026

- Elected to lead campus GDSC chapter, focusing on peer mentorship, tech literacy workshops, and hands-on coding projects *(planned)*

Women's Club Rugby Secretary – Wooster, OH
Fall 2025 – Spring 2026

- Will coordinate team logistics, communication, and match organization alongside coaching staff *(planned)*

AWARDS & HONORS

- Dean's List, *Fall 2022 – Spring 2025*

- Dean's Scholarship, Rindsfoos Scholarship *(2022-2025)*
- Carolyn Krause End. Scholarship *(2023-2025)*
- Bentz Scholarship, Stephan Scholarship *(2023-2024)*
- Miller/Smith Scholarship, Class Of 1948 Scholarship *(2022-2023)*

- Alpha Alpha Alpha – First Generation Honors Society, *Inducted Spring 2025*
- Pi Mu Epsilon – Math Honors Society, *Inducted Spring 2025*
- Delta Phi Alpha – German Honors Society, *Inducted Spring 2023*