




Serena Warner

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

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EDUCATION

The College of Wooster – B.A. in Computer Science, May 2026 (*GPA: 3.811*)

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

WORK & LEADERSHIP EXPERIENCE

STEM Zone Leadership Roles – Wooster, OH (Summer 2025 – Spring 2026)

- > *STEM Success Initiative Intern (Summer 2025–Spring 2026)* – Chosen to lead STEM Zone events and social media representation
- > *STEM Zone Intern (Fall 2023 – Spring 2026)* – Provided support and acted as a peer mentor for students in Multimedia Computing, Scientific Computing, and Data Structures and Algorithms Lab | *Python* | *Java* | *Thonny* | *IntelliJ* | *PIL* | *PyGame* | *Turtle* |

Teaching Apprentice – Wooster, OH (Fall 2024, Fall 2025)

- > *CSCI-102 Introduction to Multimedia Computing with Professor Alex Nord and Professor Dan Palmer (Fall 2024)* – 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 | *Python* | *Thonny* | *PIL* | *Pygame* | *Turtle* |
- > *FYSM-101 Technology in Society with Dr. Heather Guarnera (Fall 2025)* – Gave lectures on technology’s impact on society and advised first year students with their 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

Women’s Club Rugby Secretary – Wooster, OH (Fall 2025 – Spring 2026)

Will coordinate team logistics, communication, and match organization alongside coaching staff

RESEARCH EXPERIENCE

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 | *Python* | *VS Code* | *scikit-learn* | *pandas* | *NumPy* | *LaTeX* |

Predicting Myers-Briggs Types with Cognitive Functions and Text Input — The College of Wooster (Spring 2025)

Applied supervised machine learning, specifically Support Vector Machines (SVM) and Logistic Regression, to classify personality types based on forum text using Jung and Beebe’s theories and models | *VS Code* | *RStudio* | *Python* | *R* | *scikit-learn* | *pandas* | *NumPy* | *LaTeX* | *NLTK* |

Diabetes Diagnosis Factors Analysis — The College of Wooster (Fall 2024)

Analyzed a dataset using R with RStudio using a logistic regression model, and found that diabetes diagnosis has relationships with age, high blood pressure, high cholesterol, physical activity, heavy alcohol consumption, and income | *R* | *RStudio* |

Prediction Modeling for Union Rugby Match Results — 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 | *RStudio* | *R* | *VS Code* | *Python* | *scikit-learn* | *pandas* | *NumPy* | *LaTeX* |

TECHNICAL SKILLS

Languages: *Python* | *R* | *Java* | *C* | *C++* | *Go* | *JavaScript* | *Markdown* | *HTML/CSS (basic)*

Libraries/Frameworks: *scikit-learn* | *pandas* | *NumPy* | *Matplotlib* | *TensorFlow* | *NLTK* | *PIL* | *Pygame* | *Turtle*

Tools: *Git* | *GitHub* | *Jupyter Notebooks* | *LaTeX* | *Visual Studio Code* | *PyCharm* | *IntelliJ* | *Eclipse* | *CLion* | *Thonny* | *RStudio* | *Windows & UNIX development*

AWARDS & HONORS

- > Dean’s List (2022-2025)
- > Dean’s Scholarship, Rindsfoos Scholarship (2022-2025)
- > 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*