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.

github.com/serenawarner | www.linkedin.com/in/serena-warner-877647300 | serenawarner.github.io

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*