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 Success Initiative Intern – Wooster, OH (*Summer 2025 – Spring 2026)*

Chosen to lead STEM Zone events and social media representation | *Canva* | *Excel* |

STEM Zone Intern – Wooster, OH *(Fall 2023 – Spring 2026)*

Provided support and act 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

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* |

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* |

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* | *Word* |

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* | *HTML/CSS (basic)* |
Libraries/Frameworks: | *scikit-learn* | *pandas* | *NumPy* | *Matplotlib* | *TensorFlow* | *Turtle* | *PIL* | *Pygame*
Tools: | *Git* | *Github* | *Jupyter Notebooks* | *LaTeX* | *Visual Studio Code* | *RStudio* | *CLion* | *Thonny* | *Eclipse* | *IntelliJ* | *PyCharm* | *Windows & UNIX development* | *Canva* | *Excel* | *Word* |

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*