Elliot Barta — Junior Undergraduate

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Education

University of Wisconsin-Madison

Bachelor of Science in Economics and Statistics   *Sep 2022 – May 2026*

GPA: 4.0

Relevant Coursework: Econometric Forecasting, Probability Theory, Statistical Multivariate Analysis, Experimental Design, Differential Equations, Data Structures, Numerical Methods.

Awards: Mercile J. Lee Scholarship, Selig Scholarship, Dean's List.

Work Experience

Greater University Tutoring Service   **Madison, WI**

Mathematics and Economics Tutor   *Sep 2023 – May 2024*

- Assisted struggling students by breaking down problems.
- Navigated students to approachable and online resources outside tutoring sessions.
- Fostered a growth mindset and encouraged students who felt overwhelmed and stressed.

University of Wisconsin-Madison   **Madison, WI**

Undergraduate Research Assistant   *Jun 2023 – May 2024*

- Worked in the BLAB Lab on real-time auditory feedback for speech disorders.
- Collaborated with a graduate student to document firms evading U.S. sanctions using the Federal Register.
- Used MATLAB to explore the openMHA program for portable hearing aid applications.
- Imported and analyzed Federal Register data in R and Python to determine and visualize firm trends.
- Communicated research findings through symposia and documentation.

Office Depot   **Milwaukee, WI**

Sales Advisor   *Jul 2022 – Aug 2022*

- Applied customer-oriented strategies to solve on-the-floor issues such as self-serve printing.
- Maintained in-store stock and managed online ticketing systems.
- Used an online ticketing system to timely organize and fulfill customers' print requests.

Northwestern Mutual   **Milwaukee, WI**

Web Development Intern   *Jun 2021 – Aug 2021*

- Collaboratively developed a web-based insurance game using HTML, CSS, and JavaScript.
- Analyzed user data in an in-company app through Microsoft Excel and ServiceNow.
- Participated in Scrum and Agile practices.

Projects

Econometric Forecasting Report

Forecasting the Annual Percentage Change in Labor Productivity

- Downloaded and manipulated data labor productivity data from the Federal Reserve and used STATA to perform econometric analysis.
- Used AIC, BIC, and Predictive least squares for model selection.
- Used statistical tests such as the Dickey-Fuller test and Grainger causality test for variable inclusion.
- Forecasted the point estimate and forecast interval from Q32024 to Q32025.

Core Skills

SQL, R, Python, MATLAB, STATA, Git, Microsoft 365, Data Visualization, Pandas, Selenium, Flask, NumPy, Monte Carlo Simulations, Machine Learning, Data Science, Inference, HTML, Collaboration, Inquisitiveness.