

# Mariia Koval

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## EDUCATION

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### AMHERST COLLEGE

*BA in Economics, Statistics. GPA 3.86/4.0*

Amherst, MA, USA

2024 – 2028

*Relevant Coursework: Financial Economics, Econometrics, Data Science, Probability, Data Structures.*

### STOCKHOLM SCHOOL OF ECONOMICS

*Study Abroad – Finance & Economics track*

Stockholm, Sweden

Spring 2026

**Technical skills:** Python, R, Excel, SQL, Stata, Git, Java, JavaScript, React.js, Regression.

**Languages:** English (C2), French (C1), Ukrainian (Native), Russian (Native), Slovak (Elementary).

**Interests:** Amherst College Model United Nations Treasurer, Computer Science Department Teaching Assistant.

## PROFESSIONAL EXPERIENCE

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### Amherst College

Amherst, USA

#### Financial Aid Office intern

September 2025 – Present

- Analyzed financial aid packages and loan structures to support student financial decision-making.
- Developed guidelines for aid calculations and international package transfers for consistency and awareness.
- Tested the financial literacy platform, providing analytical and technical recommendations to improve user engagement.

### University of Tartu

Tartu, Estonia

#### Data Science and Digital Development intern

June 2025 – August 2025

- Analyzed large-scale microdata on Ukrainian refugees in 6 European countries using regression and machine learning.
- Automated data preprocessing and feature engineering pipelines in R for reproducibility of quantitative analysis.
- Communicated quantitative findings to a non-technical audience through written reports and media publications.
- Examined relationships between labor market outcomes and macroeconomic indicators across European economies.
- Developed React.js games with custom UI (Tailwind CSS/HTML) and interactive logic to simulate Citizens' Assemblies, Participatory Budgeting, and E-Petitions platforms for civic education purposes.

### Model European Parliament (MEP)

Bratislava, Slovakia

#### President & Head of Committees

September 2022 – June 2024

- Organized two 4-day conferences in Bratislava for 120 participants, overseeing a team of 15.
- Secured over €10,000 from the European Parliament Liaison Office in Slovakia and companies, including Martinus and Lunter, covering 85% of event costs.
- Chaired international MEP sessions in Bratislava and Tallinn, moderating debates and guiding policy drafting.

### YES! English School

Tallinn, Estonia; Remote

#### Founder

September 2022 – August 2024

- Grew YES! customer base to 50 students and established a team of 7 teachers and volunteers.
- Organized a 5-day English summer camp in Tallinn and 4 global online speaking clubs.

## Selected Project Experience

- **Macroeconomic Indicators Dashboard: Growth, Labor, and Education Dynamics**  
Built dashboards to analyze macroeconomic trends over time, drawing insights on economic cycles and policy impacts.
- **Predictive Modeling of Consumer Demand in Online Retail**  
Applied logistic regression to identify drivers of purchase likelihood and understand consumer decision-making.
- **Sustainability Indicators by Country using Machine Learning**  
Used unsupervised learning, Shiny dashboards, and policy analysis to track sustainability changes since 1990.
- **Analysis of the Online Articles Virality**  
Studied article shareability with ANOVA and Kruskal-Wallis tests on textual, visual, and time features.

## AWARDS AND CERTIFICATIONS

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Charles Hamilton Houston Program Scholar (2025) - awarded funding for an unpaid internship in data analysis.

Mount Vernon Student of the Year Award (2022) - honored for academic excellence and community leadership.