

# Mariia Koval

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## EDUCATION

### 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*)

Relevant Coursework: Behavioral Finance, Economics of European Integration, Psychology of Work.

Stockholm, Sweden

Spring 2026

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

**Languages:** French, Russian, Ukrainian.

**Interests:** Computer Science Department TA, Model United Nations Treasurer, Data Analyst certification (DataCamp), CFI Corporate Finance Foundations Professional Certificate.

## PROFESSIONAL EXPERIENCE

### Amherst College

Amherst, USA

#### Financial Aid Office intern

September 2025 – December 2025

- Supported students in understanding financial aid packages and loan structures to facilitate financial decision-making.
- Developed video and written guidelines for aid calculations and international package transfers.
- 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 for civic education, simulating Citizens' Assemblies, Participatory Budgeting, and E-Petitions, supported by academic research on e-democracy tools.

### 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

### • High- and Low-Risk Diversified Investment Portfolio Analysis

Built a multi-asset portfolio using FCFF, financial ratios, and risk-adjusted return analysis to optimize asset allocations.

### • 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

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

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