

Mariia Koval

Amherst, MA, USA • mariyakoval787@gmail.com • github.com/mariyakoval/portfolio

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 – 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

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

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.