

# Hayk Gevorgyan

Data Analyst / Data Science Intern

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Availability: **Part-time** / **Internship** | Work authorization: **Student residence permit, eligible for part-time**

## Profile

MSc Economics candidate (AUEB) with strong quantitative background, including econometrics & probability foundations, and practical Python/SQL skills. Completing a Python-based dissertation on stochastic volatility, using Bayesian methods and MCMC. Open to entry-level data roles (intern/part-time); ready to contribute across the data workflow while learning fast.

## Skills

**Programming:** Python, SQL, R

**Libraries:** pandas, NumPy, SciPy, matplotlib

**Statistics/ML:** Regression, time series analysis, Bayesian statistics, MCMC

**Tools:** Git, LaTeX, Excel, Jupyter

## Education

**Athens University of Economics and Business (AUEB)** 2023–Present  
MSc in Economics - GPA: 8.67/10. Key coursework: Large Data & Statistical Learning; Data Analysis & Applied Econometrics.

**French University in Armenia (partner: Jean Moulin Lyon 3)** 2014–2018  
BSc in Economics (Commerce) — Diploma with Honor, awarded for academic excellence.

## Selected Projects

**MSc Dissertation - Stochastic Volatility with Bayesian Methods (Python)** 2024–Present

- Estimated volatility models relevant for forecasting risk/uncertainty in financial data; compared several Markov Chain Monte Carlo (MCMC) approaches for speed and stability.
- Work-in-progress repo with code and example runs. Link: [github.com/hayk9704/MCMC-StochVol](https://github.com/hayk9704/MCMC-StochVol)

**Large Data & Statistical Learning (R)** 2024

- Analyzed Eurostat monthly indicators for EA20, DE, NL, IT to understand activity trends; built simple coincident indicators via PCA and verified they track industrial production over time.
- Identified influential drivers of industrial production using subset/stepwise selection and penalized regressions (Ridge/Lasso/Elastic Net); compared patterns across countries.

## Experience

**Logistics Coordinator (Freight Brokerage & Operations)** | Wells Brothers Nevada Corporation (Armenian Branch), Yerevan 2021–2023

- Oversaw end-to-end brokerage operations: customer acquisition, rate negotiation, carrier performance management/monitoring, and on-time execution.

**Logistics Coordinator (Freight Brokerage & Operations)** | Kata Company, Yerevan 2020–2021

- Matched customer loads with vetted carriers, resolved operational issues to maintain service levels.

## Languages

Armenian (Native), English (C1), Russian (B2), French (B1).

## Service

Mandatory military service (Republic of Armenia) 2018–2020