

Roman Samoilov

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Education

Lomonosov Moscow State University, Faculty of Mechanics and Mathematics

Specialist, Stochastic Financial Mathematics and Economics

- Joint specialisation with Vega Institute Foundation.
- Scientific Supervisor: Prof. Ekaterina Vadimovna Bulinskaya.

Moscow, Russia

Since Sep 2021

Professional Experience

Laboratory of Market Microstructure, Vega Institute Foundation (VTB Group)

Researcher

- Feature engineering and Prediction of trading volumes based on testing in the Rama Cont model of the stock book model

Moscow, Russia

Since November 2024

Projects & Scientific Work

⌚ Strategy Backtest in Uniswap V3 pool

Lomonosov Moscow State University, Faculty of Mechanics and Mathematics

Moscow, Russia

September 2023 – December 2023

- This is a project dedicated to the development and testing of liquidity placement strategies in uniswap v3, which includes working with GraphQL, delta hedging of the portfolio and the development of utility functions for a specific task.

⌚ C++ project on Network Programming

Lomonosov Moscow State University, Faculty of Mechanics and Mathematics

Moscow, Russia

September 2023 – December 2023

- Development of a system for testing exchange strategies, automatic loading of up-to-date data from the exchange, as well as checking hypotheses about the dependence of futures prices and the underlying asset.

⌚ Econometrics project on Determinants of admission to MSU

Faculty of Mechanics and Mathematics, Vega Institute Foundation

Moscow, Russia

Jan 2024 – May 2024

- Using panel econometric model investigated the relationship of indicators from the lists of applicants and passing scores.

⌚ Improving Russian Stock Market Volume Prediction Models

Lomonosov Moscow State University, Faculty of Mechanics and Mathematics

Moscow, Russia

September 2024 – December 2024

- This study is devoted to modeling and improving models for forecasting intraday time series of trading volumes on the Moscow Stock Exchange. The forecasting methods used are the upgraded PC-VWAP, as well as machine learning models: LSTM, XGBoost and Random Forest.

QUANTATON 2024

Participant

- Lectures and Hackathon on Derivatives Pricing in C++.

- Introduction to Data Science and ML tournament.

- Introduction to Decentralized Finance.

Pushkin, Russia

Jul 2024

VEGA SUMMER SCHOOL 6

Seminarist

- Lectures and Hackathon on Derivatives Pricing in C++.

- Introduction to Data Science and ML tournament.

- Decentralized Finance hands-on study of AMM protocols, including Uniswap v2, v3 and v4.

- Study of the EVM (Ethereum Virtual Machine) and smart-contract development (Solidity).

Kaluga, Russia

August 2025

Skills

Programming: C/C++, Python (numpy, pandas), R.

Software: Git, L^AT_EX, Wolfram Mathematica.

Language: Russian (Native), English (Intermediate).

Awards & Honours

Vega Institute Foundation Scholarship: Award for advanced studies in Mathematical Finance

Since Feb 2023