

# Stefan Nicov

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## Education

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**HARVARD UNIVERSITY** | Cambridge, MA

*Class of 2027*

**BA Statistics, BA Economics, CS minor**

Math 25 a/b - Theoretical Linear Algebra and Real Analysis

Stat 110 Introduction to Probability

CS 1210 - Introduction to Theoretical Computer Science

Stat 111 Introduction to Statistical Inference

Stat 210 Probability I (graduate course in Fall 2024)

Stat 242 Time Series (graduate course in Fall 2024)

Concentration GPA: 3.78

Concurrent **MA Statistics**

*May 2027*

## Research & Experience

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**Course Assistant, Physics 15B (Electromagnetism), Harvard University**

*September 2024 - December 2024*

- Conduct weekly Office Hours to address students' questions regarding course materials and problem sets
- Evaluate and provide feedback on homework assignments

**Quantitative Analyst Intern, National Bank, Republic of Moldova**

*June 2024 - August 2024*

- Collected and cleansed data to create a database with quarterly GDP, categorized Google Trends data, and Night Time Luminosity from NASA BlackMarble database and CO2/NO2 pollution data from Sentinel satellite.
- Developed, backtested, and implemented GDP nowcasting models using ARIMA, MIDAS OLS, PLS regression, and PCA for dimensionality reduction for principal component regression.
- Created a user manual and tutorial for the bank's internal use.

**Analyst, Charles River Economics Labs, Harvard University**

*February 2024 - present*

- Climate finance research project in upper-middle-income countries, in collaboration with the Khazanah Research Institute in Malaysia
- Conducted data analysis, visualization, and applied economic models to estimate Malaysia's financial needs for climate change adaptation and mitigation for COP29

## Personal Projects

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CuteTree - a project that creates and classify trees - [snicov.github.io/cutetree.html](https://snicov.github.io/cutetree.html) - in work project

- Created a genetic algorithm for tree image generation and using results for CNN training for binary classification
- Using trained CNN to understand "beautiful" features by inspecting the activation atlas

Trend Following Trading Strategy - [snicov.github.io/followthetrend.html](https://snicov.github.io/followthetrend.html)

- Implemented from scratch a basic trend following ETF trading strategy
- Accounted basic trading costs to prove their significance in strategy performance
- Created a user manual to replicate the results in R

Blog - [snicov.github.io/blog.html](https://snicov.github.io/blog.html)

- Writing a series of posts that explain concepts in statistics, probability, math, physics, etc. from scratch

## Academic Awards

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- International Physics Olympiad – *2x Bronze, Silver (2020-2022)*
  - European Physics Olympiad – *2x Bronze, HM (2020-2022)*
  - Asian Physics Olympiad – *Bronze (2021)*
  - Romanian Masters of Physics – *Bronze (2021)*
  - International Junior Science Olympiad (Physics, Chemistry, Biology) – *Silver (2018)*

## Skills & Interests

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- R, Python, C++, p5.js, processing.js, JavaScript, LaTeX, Markdown**
  - Languages: English, Russian, Romanian – Fluent; French, Turkish – Intermediate
  - Interests: Generative Art, Projective Mapping, Poker