

# ALEKSEI VLASOV

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✉ Email [in](#)LinkedIn [G](#)GitHub [Telegram](#)

## EDUCATION

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### St Petersburg State University

Bachelor of Science in Mathematics and Computer Science  
with honors

GPA: 5.0/5.0

Sep 2021 - Jun 2025

Saint-Petersburg, Russia

### Yandex School of Data Analysis

Intensive free Master's-level program in Machine Learning

Sep 2023 - Jun 2026

Saint-Petersburg, Russia

## ACADEMIC EXPERIENCE

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### Research Engineer

*Markov Lab*

Sep 2025 - Present

Saint-Petersburg, Russia

- Investigating working-memory mechanisms in larval zebrafish using whole-brain optical imaging to identify neural activity patterns.
- Conducting research on efficient fine-tuning techniques for Mamba-based sequence models to improve adaptation and performance.

### Teaching Assistant for Bayesian inference

*St Petersburg State University*

Sep 2025 - Present

Saint-Petersburg, Russia

### Problem Writer & Committee Member

*All-Russian Olympiad in AI for High School Students*

Aug 2025 - Present

Russia

## INDUSTRY EXPERIENCE

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### Quantitative Researcher

*Eisler Capital*

Jun 2024 - Aug 2024; Feb 2025 - May 2025

London, UK; Dubai, UAE

- Replaced linear regression with a two-layer neural network under specific constraints while mixing signals, leading to 20% improved strategy performance.

### Quantitative Research Intern

*Pinely*

Jul 2023 - Sep 2023

Limassol, Cyprus

- Formulated and implemented a new metric for assessing strategy viability pre-backtest, enhancing efficiency in strategy evaluation.

## ACHIEVEMENTS & AWARDS

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### Kolmogorov Olympiad in Probability Theory

1st place out of 34 participants

Apr 2024

Moscow, Russia

### First Prize at International Math Competition (IMC)

27th place out of 393 participants

Aug 2023

Blagoevgrad, Bulgaria

### 4 diplomas at All-Russian Olympiad in mathematics

15th, 35th, 13th and 4th place, respectively, out of 120+ participants

Apr 2017, 2018, 2019, 2021

Russia

## SKILLS

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Programming languages

Python, C/C++, Kotlin

Other tools

Git, GNU/Linux, Bash, L<sup>A</sup>T<sub>E</sub>X

Languages

Russian (native), English (IELTS 8.0), French (elementary)