

Oleksandr Lazorenko

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Education

Columbia University

New York, NY

Bachelor of Science in Applied Mathematics

with Minor in Computer Science

Sep 2023 - May 2027

- **GPA:** 3.91 / 4.00;
- **Honors:** Dean's List
- **Relevant Coursework:** Machine Learning, Applied Stochastic Analysis, Linear Regression Models, Time Series Analysis, Probability Theory, Data Structures, Numerical Methods, Modern Analysis I, Partial Differential Equations, Dynamical Systems, Honors Math.
- **Clubs and activities:** Columbia Emerging Markets Society, Paragon Global Investments.

Experiences

Columbia Math Undergraduate Summer Research

May 2025 – present

- Collaborating within a six-member REU team, delivering code and weekly literature reviews that steer the project's proof strategy and implementation; contribute to preparing our paper for publication.
- Combining combinatorial bijections (RSK) with stochastic path-transform methods to analyze the periodic Pitman transform in random-walk and discrete-polymer models.

Undergraduate Researcher at Columbia University

May 2024 – present

- Implementing advanced tensor methods to optimize computational efficiency and memory usage.
- To validate our theoretical approach, we tested the methods in MATLAB to ensure accuracy and performance; put our results into a paper which is under preparation for publication.

Citadel Summer Invitational Datathon

Aug 2024

- Selected as 1 of 30 teams selected from thousands of applicants.
- Together with teammates developed a comprehensive statistical analysis on the obesity epidemic's impact on public health and market dynamics in the US.

Harvard University Trading Competition

Mar 2024, Apr 2025

- Competed in a simulated trading environment to develop and test quantitative strategies under real-world market conditions.
- Collaborated with an assigned team to balance risk and reward, gaining practical exposure to professional trading dynamics.

Awards

International Physics Olympiad

Jul 2022

- Bronze medal

Scholarship of the President of Ukraine

Sep 2022

- Awarded annually to 5 people for outstanding achievements in Physics.

Skills and Interests

Skills: Java, Python, Matlab

Interests: Finance, soccer, history, cooking, notaphily, table tennis