Igor Medvedev

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Education

Princeton University, Princeton, NJ 2023-
PhD in Mathematics
Advised by Mihalis Dafermos

Cambridge University, Trinity College, Cambridge, UK 2022-2023
MAst in Pure Mathematics (Part III)

Princeton University, Princeton, NJ 2018-2022
A.B. in Mathematics with Highest Honors
GPA 3.99 out of 4.00

Publications and preprints

Soon :)

Talks

Gran Sasso Science Institute June 2025
General Relativity Learning Seminar, Cambridge University June 2025

Work Experience

Radix Trading *Quantitative Research Intern* Summer 2021
- Researched and developed systematic trading signals for a range of asset classes, including futures, equities, and cryptocurrencies. Developed criteria to predict performance of the trading signals.
- Mentored by Kenan Diab.

Five Rings Capital *Trading Intern* Summer 2020
- Used Python to analyzed how delta hedging impacts the price of the underlying in options markets.
- Participated in mock trading, intro to finance lectures. Mentored by Harrison Li.

Service and Organization

Climate and Inclusion Committee, Princeton 2025-
Graduate Student Committee, Princeton 2023-
Graduate Student Seminar organizer, Princeton 2024-2025
Directed Reading Program organizer, Princeton 2023-2025

Skills

Languages: Serbian (native), English (fluent), Spanish (beginner)
Computing: LaTeX, C++ (beginner)

Undergraduate projects

Part III Essay advised by Prof. Mihalis Dafermos 2023
Undergraduate Thesis advised by Prof. Mihalis Dafermos 2021-2022
Undergraduate Independent work advised by Prof. Yakov Shlapentokh-Rothman 2021

Math competitions

International Mathematical Olympiad (IMO) silver medal 2016-2018
- **silver medal in 2018**, placed 87th out of 594
- **bronze medal in 2017**, placed 188th out of 615
- **bronze medal in 2016**, placed 206th out of 502

International Physics Olympiad (IPhO) 2018
- **silver medal in 2018**, placed 69th out of 412

Conferences attended

Simons Math Summer Workshop, Stony Brook 2025
- Partial Differential Equations of Classical Physics

Simons Workshop, Stony Brook 2025
- Hyperbolic and Dispersive Equations on Curved Geometries: Connections to Physics and General Relativity

Symmetries and dynamics of extremal black holes, Princeton 2024

Nonlinear Aspects of General Relativity, Princeton 2023

Clay Research Conference and Workshops 2022
- participated in the Stability and Instability in General Relativity Workshop