Milana Komisarova

Latvian

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Education

École Polytechnique, Palaiseau, France
Bachelor's in Mathematics and Computer Science   *Expected 2025*

Riga State Gymnasium No. 1, Latvia
Mathematics and Physics   *Graduated 2022, GPA: 9.6/10*

Experience & Research

Mercor - Mathematician   *Nov 2024 – Mar 2025*
Created and refined math problems to train AI systems at a leading global AI company, improved reasoning and problem-solving capabilities using both original and existing content.

Bachelor Thesis – École Polytechnique   *Jan 2025 - Mar 2025*
Fast Computations of Connected Toroidal Schnyder Woods
Proved an open question in graph theory using Schnyder woods on toroidal surfaces; developed and proved new algorithms.

Mathematics Tutor   *2020–2024*
Provided tutoring to students preparing for mathematics exams; helped students understand challenging mathematical concepts.

Jane Street London Insight Program - Trading   *Apr 2024*
Selected participant for Jane Street's elite insight event focused on trading, probability, and decision-making.

European Summer Rationality Program   *Aug 2023*
Highly selective summer program on logic and decision-making (acceptance rate $< 5\%$).

Achievements

- **IMO Honourable Mention** (2022)
- **Latvian Math Olympiad**: 1st place (2019, 2021, 2022), 2nd (2020)
- **Janis Kasakovskis Award** (2022): top math olympiad performer in Latvia
- **Baltic Way** Team Math Contest: 4th place (2021)
- **International Science Olympiad (Math)**: 2nd place (2019, 2021)
- **Latvian Linguistics Olympiad**: 2nd place (2020–2022)

Skills

- Mathematical problem solving • Python (NumPy) • LaTeX
- Languages: Russian, Latvian, English (C1), French (B2), German (B1)

Other

Math Puzzle Organizer, BMathX, École Polytechnique
Volunteer, Jugend debattiert (German-language debate program)