Milana Komisarova

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Education

University of Latvia, Riga, Latvia
Master's in Mathematics and Data Science   *Expected 2027*

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

Riga State Gymnasium No. 1, Latvia
Mathematics and Physics   *Graduated 2022*

Experience

Neklātienes Matemātikas Skola (NMS) – Math Olympiad Organizer   *Aug 2025 – Present*
Organize national and international math olympiads (incl. Baltic Way 2025). Create, proofread, and grade competition problems. Also serve as NMS Social Media Manager since Jan 2026.

Mercor Intelligence - Mathematician   *Nov 2024 – Present*
Create and refine math problems to train AI systems at leading global AI companies, enhancing reasoning with original and existing content. Review and provide feedback on tasks by other contributors.

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

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

Projects

Dino Mental Math Game   *Sep 2025*
Built a web-based math game with real-time leaderboards using JavaScript, HTML/CSS, and Firebase. Implemented multiple game modes and both quick-play and progressive level systems.

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

Achievements

- **IMO Honourable Mention** (*2022*)
- **Latvian Math Olympiad:** 1st place (*2019, 2021, 2022*), 2nd place (*2020*)
- **Janis Kasakovskis Award:** top math olympiad performer in Latvia (*2022*)
- **Baltic Way Team Math Contest:** 4th place (*2021*)
- **International Science Olympiad (Math):** 2nd place (*2019, 2021*)
- **Latvian Linguistics Olympiad:** 2nd place (*2020–2022*)
- **World Schools Debate Tournament:** Best Speaker & Best Team Award (*2021*)
- **Scholarships:** École Polytechnique Excellence (*2022*), Latvian National Excellence "Zelta Stipendija" (*2022*), State Centennial "Simtgades Stipendija" (*2022*)

Skills

- Mathematical problem solving ● Python (NumPy), HTML, CSS ● LaTeX
- Languages: Russian, Latvian, English C1, French B2, German B1, Italian A1

Other

Math Puzzle Organizer, BMathX, École Polytechnique (*2023–2024*)
Participant, European Summer Rationality Program (*2023*)
Volunteer, Jugend debattiert – German-language debate program (*2020–2022*)
Member, RV1G Debate Society (*2020–2022*)