

# Milana Komisarova

🇱🇻 Latvian 📞 +371 26855516 ✉ milana.komisarova@gmail.com  
🌐 linkedin.com/in/milana-komisarova 🌐 mkomisarova.github.io

## Education

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**Latvijas Universitāte**, 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 & Research

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**Mercor - Mathematician** *Nov 2024 – Present*  
Create and refine math problems to train AI systems at a leading global AI companies, improve 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

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- **IMO Honourable Mention** (2022)
- **IOL Participation** (2021)
- **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)
- **World Schools Debate tournament**: Best Speaker Award, Best Team Award (2021)

## Skills

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

## Other

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**Math Puzzle Organizer**, BMathX, École Polytechnique (2023-2024)  
**Volunteer**, Jugend debattiert - German-language debate program (2020-2022)  
**Member**, RV1G Debate Society (2021-2022)