

Matthew Magin

Curriculum Vitae

Personal Information

Date of Birth *June 15th, 2003*
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Employment

03.2024-present **Research assistant**, [Saint-Petersburg university](#), [Leonhard Euler International Mathematical Institute \(EIMI\)](#).
2022 - Present **Teacher of olympiad mathematics**, [Physics and Mathematics Lyceum №30](#), Saint Petersburg.
Head of circle (with support of A.Golovanov).

Education

2021–Present **Bachelor of Mathematics**, *Department of Mathematics and Computer science*, Saint Petersburg State University, Saint Petersburg. **Current information on 06.2024:** 4th course student.
Advisor Prof. [Grigory Mikhalkin](#), University of Geneva; Dr. [Nikita Kalinin](#), GTIIT.
2019–2021 **High School Education**, *Physics and Mathematics Lyceum №30*, Saint Petersburg.

Scientific interests

- Real algebraic geometry
- Algebraic curves, Riemann surfaces
- Tropical geometry
- Geometric methods in number theory

Papers

[KM24a] Nikita Kalinin and Matthew Magin. Tropical weil’s reciprocity law and weil’s pairing, 2024. URL: <https://arxiv.org/abs/2408.06372>, [arXiv:2408.06372](#).
[KM24b] Nikita Kalinin and Matthew Magin. Weil’s reciprocity law: from vieta’s theorem to quadratic reciprocity. *To appear in Matematicheskoe Prosveshchenie*, 2024.

Conferences and seminar talks

8/2024 «Tropical Weil reciprocity law», [4th conference of Mathematical centers of Russia.](#), talk in section «Geometry», Saint-Petersburg, Russia.
5/2024 [Spring School-Conference on Number Theory, Algebra and Algebraic Geometry «SPRING ALGEULER 2024»](#), organizer.
4/2023 «A Brief Introduction to Tropical Geometry», [Low-dimensional topology student seminar](#), EIMI.
11/2023 «Everything you wanted to know about Hansel’s lemma», [Student seminar on arithmetics](#), EIMI.

Achievements & Honors

2021 - present **Scholarship of “Gazprom Neft” prize winner**, (*list of students, recommended for it in spring semester 2021/2022*)., (*list of students, recommended for it in 2023*).

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- 6/2022 [Travel grant of Chebyshev labarotory](#) for «Summer school of contemporary mathematics».
- 03/2024 [Competition to support young mathematicians of St. Petersburg in 2024](#), prize winner. Obtained a research position at the EIMI.
- 06/2024 **Coursework competition of MCS SPbSU**, 1st place winner with the work «Divisors of tropical meromorphic functions» (advisor: Dr. Nikita Kalinin, GTIIT). Won a personal scholarship named after Nikolai A. Vavilov.

Experience

Teaching and math olympiads

- 6/2022 **Assistant lecturer**, *Summer school of MCS SPbU*, Saint Petersburg.
Working as an assistant lecturer on course «Computational geometry» in [summer school for schoolchildren](#) (jointly with B. Zolotov).
- 6/2023 **Lecturer**, *Summer school of MCS SPbU*, Saint Petersburg.
Lecturer on course «Geometric methods in number theory» (jointly with I. Vasiliev) in [summer school for schoolchildren](#).
- 5/2024 **Lecturer**, *Educational Centre «Sirius»*, Sochi.
Lecturer on [May project program in mathematics and theoretical computer science](#).
- 6/2024 **Lecturer**, *Summer school of MCS SPbU*, Saint Petersburg.
Lecturer on course «Catalan's conjecture» (jointly with I. Vasiliev) in [summer school for schoolchildren](#).
- 2023-present **Jury member**, [Saint Petersburg Mathematical Olympiad](#).
- 2023-present **Jury member**, [Ural Tournament of Young Mathematicians](#).