

Alexandr Grebennikov

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Am Campus 1, Klosterneuburg, Austria

Citizenship: Russian

Date of birth: 1 September 2000

Languages: Russian (native), English (C1)

EDUCATION

ISTA (Institute of Science and Technology Austria)

PhD in Mathematics

Advisor: Matthew Kwan

Klosterneuburg, Austria

2024 – present

IMPA (Instituto de Matematica Pura e Aplicada)

Master degree in Mathematics, GPA: 4.0/4.0

Advisor: Mikhail Belolipetsky

Rio de Janeiro, Brazil

2022 – 2024

Saint Petersburg State University

Bachelor degree in Mathematics, GPA: 5.0/5.0

Advisor: Anastasia Stavrova

Saint Petersburg, Russia

2018 – 2022

TALKS AND PRESENTATIONS

Contributed talk at Random Structures and Algorithms conference

Title: Geometric Littlewood–Offord problems via lattice point counting

August 2025

Talk at ISTA Number Theory seminar

Title: Littlewood–Offord problem for polynomials of bounded Chow rank

July 2025

Poster presentation at Brazilian School of Combinatorics

Title: Edge-disjoint rainbow triangles in colorings of K_n

September 2023

Talk at IMPA Geometry seminar

Title: Multiplicities in the length spectrum and growth rate of Salem numbers

September 2023

PUBLICATIONS AND PREPRINTS

1. A. Grebennikov and M. Kwan, Geometric Littlewood–Offord problems via lattice point counting, arXiv:2505.24699, submitted.
2. A. Grebennikov, L. Mattos and T. Szabó, On almost Gallai colourings in complete graphs, arXiv:2503.17334, submitted.
3. A. Grebennikov and J. P. Marciano, C_{10} has positive Turán density in the hypercube, J. Graph Theory **109** (2025), 31–34.
4. A. Grebennikov, Multiplicities in the length spectrum and growth rate of Salem numbers, Bull. Braz. Math. Soc. (N.S.) **55** (2024), Paper No. 25, 21 pp..
5. A. Grebennikov, Non-surjective Milnor patching diagrams, arXiv:2306.13180, submitted.
6. A. Grebennikov, A. Sagdeev, A. Semchankau and A. Vasilevskii, On the sequence $n! \bmod p$, Rev. Mat. Iberoam. **40** (2024), 637–648.

7. A. Grebennikov and G. Y. Panina, A note on the concurrent normal conjecture, *Acta Math. Hungar.* **167** (2022), 529–532.
8. A. Grebennikov, X. Isaeva, A. V. Malyutin, M. Mikhailov and O. R. Musin, Logarithmic algorithms for fair division problems, *SIAM J. Discrete Math.* **38** (2024), 2926–2939.
9. D. Badulin, A. Grebennikov and K. V. Vorob'ev, On the palindromic Hosoya polynomial of trees, *MATCH Commun. Math. Comput. Chem.* **88** (2022), 471–478.

COMPETITION ACHIEVEMENTS

Mathematics

- International Mathematical Competition for University Students (IMC): 2022 — Grand Grand First Prize (1st-2nd place); 2021 — Grand First Prize (2nd place)
- Russian National High-school Olympiad in Mathematics 2017, Winner
- Jury member, International Mathematical Olympiad (IMO) 2020

Programming

- ICPC Brazil Finals 2023, 3rd place and gold medal (team)
- ICPC World Finals 2019, participant (team)
- ICPC Northern Eurasia Regional Contest 2018, 10th place and bronze medal (team)