CURRICULUM VITAE

Stepan A. Alexandrov

Bachelor of Applied Mathematics and Informatics

Department of Discrete Mathematics
Moscow Institute of Physics and Technology

Laboratory of Combinatorial and Geometric Structures
Moscow Institute of Physics and Technology

PERSONAL DATA

Surname:	Alexandrov (also Aleksandrov)
First Name:	Stepan
Patronymic:	Andreevich
Date of Birth:	25 January 2000
Place of Birth:	Yaroslavl, Russia
Citizenship:	Russian Federation
Marital Status:	Single

LANGUAGES

Russian:	Native speaker
English:	Advanced
French:	Beginner

CONTACTS

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ACADEMIC DEGREES

Jun 2017 — *Certificate of school education*, School 33, Yaroslavl, Russia.

Jun 2021 — *Bachelor diploma in applied mathematics and informatics*, Moscow Institute of Physics and Technology.

Thesis: Combinatorial properties of compact hyperbolic Coxeter polytopes.

Advisor: associate prof. Nikolay V. Bogachev.

UNIVERSITY EDUCATION

Sep 2017 – May 2021 — Moscow Institute of Physics and Technology, Faculty of Innovation and High Technology, Department of Discrete Mathematics.

Sep 2021 – present — Moscow Institute of Physics and Technology, School of Applied Mathematics and Informatics, Department of Discrete Mathematics.

PROFESSIONAL BACKGROUND

Sep 2021 – present — *Teaching assistant* at Department of Discrete Mathematics, Moscow Institute of Physics and Technology (*seminars* on discrete analysis, foundations of probability and measure theory, differential geometry and topology, theory of rings and fields, computational complexity, and mathematical logic and algorithm theory).

Sep 2022 – present — *Intern* at Laboratory of Combinatorial and Geometric Structures, Moscow Institute of Physics and Technology (supervisor: Maksim E. Zhukovskii).

OLYMPIADS AND COMPETITIONS

Apr 2016 — All-Russian School Olympiad in Informatics, Kazan *(prize-winner)*.

Mar 2017 — All-Russian School Olympiad in Informatics, Innopolis *(prize-winner)*.

Jul 2021 — Review of Theses in Mathematics, Higher School of Economics, Nizhny Novgorod, Russia *(prize-winner)*.

Dec 2021 — Möbius Contest, nomination "Undergraduates", Independent University of Moscow, Russia *(diploma of a finalist)*.

GRANTS AND SCHOLARSHIPS

Dec 2021 – present — Grant "Leader (Math)" #20-7-1-33-4 of the Theoretical Physics and Mathematics Advancement Foundation "BASIS" (young participant-student; head of the group: Andrey Yu. Vesnin).

Jan 2022 — The Kovalevskaya Grant for participation in International Congress of Mathematicians 2022, Russia — canceled due to the congress being held online.

Sep 2022 – present: Increased State Academic Scholarship for noteworthy research achievements, Moscow Institute of Physics and Technology.

SCHOOLS AND CONFERENCES

PARTICIPANT

Jul 2021: Summer Research Program for Undergraduates, Laboratory of Combinatorial and Geometric Structures, Moscow Institute of Physics and Technology, Dolgoprudny, Russia.

Aug 2021: School "Computational Complexity Theory", Sirius Mathematical Center, Sochi, Russia.

Apr 2022: Winter Mathematical School SPbSU — HSE, Saint Petersburg State University, Russia.

Jul 2022: 9^{th} International Youth Summer School-Conference on Geometric Methods of Mathematical Physics, Steklov International Mathematical Center & Moscow State University, Krasnovidovo, Russia.

Jul 2022: Summer Mathematical School and International Conference "Algebra and Geometry", Higher School of Economics & Independent University of Moscow, Suzdal, Russia.

Dec 2022: Summer School "Boundaries of the Singularities", Higher School of Economics, Moscow, Russia (to be held).

SPEAKER

Sep 2022: Conference "Geometry and Topology of 3-Manifolds", Sirius Mathematical Center, Sochi, Russia.

Oct 2022: International School "Toric Topology, Combinatorics, and Data Analysis", Euler International Mathematical Institute, Saint Petersburg, Russia.

PUBLICATIONS

PREPRINTS

[2] *Lannér diagrams and combinatorial properties of compact hyperbolic Coxeter polytopes*, S. Alexandrov, 2022, arXiv:2203.07248 (submitted to Transactions of the AMS).

[1] *On volumes of hyperbolic right-angled polyhedra*, S. Alexandrov, N. Bogachev, A. Vesnin, A. Egorov, 2021, arXiv:2111.08789 (accepted to Sbornik: Mathematics).