

# CURRICULUM VITAE

## Stepan A. Alexandrov

Bachelor of Applied Mathematics and Computer Science

Department of Discrete Mathematics  
Moscow Institute of Physics and Technology

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

## PERSONAL DATA

Last Name: 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

Home: Institutskiy per., 6a  
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## ACADEMIC DEGREES

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

## UNIVERSITY EDUCATION

- Sep 2021     Moscow Institute of Physics and Technology, School of Applied Mathematics and Informatics, Department of Discrete Mathematics.  
present
- Sep 2017     Moscow Institute of Physics and Technology, Faculty of Innovation and  
Jun 2021     High Technology, Department of Discrete Mathematics.

## PROFESSIONAL BACKGROUND

- Sep 2022     **Intern** at Laboratory of Combinatorial and Geometric Structures, Moscow  
present     Institute of Physics and Technology.
- Sep 2021     **Teaching assistant** at Department of Discrete Mathematics, Moscow In-  
present     stitute of Physics and Technology.  
*Lectures* on differential geometry and topology, and algebraic topology.  
*Seminars* on discrete analysis, foundations of probability and measure theory, differential geometry and topology, theory of rings and fields, computational complexity, mathematical logic and algorithm theory, and algebraic topology.

## PUBLICATIONS

### PREPRINTS

- [Ale23]     **On ideal vertices of right-angled hyperbolic polyhedra**, S. Alexandrov, 2023, arXiv:2303.09533.
- [Ale22]     **Lannér diagrams and combinatorial properties of compact hyperbolic Coxeter polytopes**, S. Alexandrov, 2022, arXiv:2203.07248 (accepted to Transactions of the AMS).

### 2023

- [ABVE23]     **On volumes of hyperbolic right-angled polyhedra**, S. A. Alexandrov, N. V. Bogachev, A. Yu. Vesnin, and A. A. Egorov, *Matematicheskii Sbornik*, 214:2 (2023), 3–22, doi:10.4213/sm9740 (in Russian; English version: arXiv:2111.08789).

## GRANTS AND SCHOLARSHIPS

Sep 2022 present	Increased State Academic Scholarship for noteworthy research achievements, Moscow Institute of Physics and Technology.
Jan 2022	The Kovalevskaya Grant for participation in International Congress of Mathematicians 2022, Russia — canceled due to the congress being held online.
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).

## SCHOOLS AND CONFERENCES

### SPEAKER

Jan 2023	Tenth School-Conference “Lie Algebras, Algebraic Groups, and Invariant Theory”, Higher School of Economics, Moscow, Russia.
Oct 2022	International School “Toric Topology, Combinatorics, and Data Analysis”, Euler International Mathematical Institute, Saint Petersburg, Russia.
Sep 2022	Conference “Geometry and Topology of 3-Manifolds”, Sirius Mathematical Center, Sochi, Russia.

### PARTICIPANT

Jan 2023	Winter Student School in Mathematics and Theoretical Informatics, International Laboratory of Cluster Geometry, Higher School of Economics, Moscow, Russia.
Dec 2022	Summer School “Boundaries of the Singularities”, Higher School of Economics, Moscow, Russia.
Jul 2022	Summer Mathematical School and International Conference “Algebra and Geometry”, Higher School of Economics & Independent University of Moscow, Suzdal, Russia.
Jul 2022	9 <sup>th</sup> International Youth Summer School-Conference on Geometric Methods of Mathematical Physics, Steklov International Mathematical Center & Moscow State University, Krasnovidovo, Russia.
Apr 2022	Winter Mathematical School SPbSU — HSE, Saint Petersburg State University, Russia.
Aug 2021	School “Computational Complexity Theory”, Sirius Mathematical Center, Sochi, Russia.
Jul 2021	Summer Research Program for Undergraduates, Laboratory of Combinatorial and Geometric Structures, Moscow Institute of Physics and Technology, Dolgoprudny, Russia.
Feb 2017	Winter Computer School, Moscow Institute of Physics and Technology,

Dolgoprudny, Russia.

Feb 2016 Winter Computer School, Moscow Institute of Physics and Technology,  
Dolgoprudny, Russia.

## OLYMPIADS AND COMPETITIONS

Dec 2022 26<sup>th</sup> All-Russian Möbius Contest, nomination “Undergraduates”, Independent University of Moscow, Russia (*diploma of a finalist*).

Dec 2021 25<sup>th</sup> All-Russian Möbius Contest, nomination “Undergraduates”, Independent University of Moscow, Russia (*diploma of a finalist*).

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

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

Mar 2017 Olympiad in Programming “Technocup”, Moscow (*prize-winner*).

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