

# 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  
First Name: Stepan  
Patronymic: Andreevich  
Date of Birth: 25 January 2000  
Place of Birth: Yaroslavl, Russia  
Citizenship: Russian Federation  
Marital Status: Single

## CONTACTS

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*Revised 07/10/2022*

## 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. Nikolai V. Bogachev.

## UNIVERSITY EDUCATION

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

## PROFESSIONAL BACKGROUND

- Sep 2021     *Teaching assistant* at Department of Discrete Mathematics, Moscow Institute  
present     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     *Intern* at Laboratory of Combinatorial and Geometric Structures, Moscow  
present     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

- Sep 2021     Grant “Leader (Math)” #20-7-1-33-4 of the Theoretical Physics and Mathematics  
present     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.
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## 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 <sup>th</sup> 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.

### 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. A., 2022, arXiv:2203.07248 (submitted to Transactions of the AMS).
- [1] *On volumes of hyperbolic right-angled polyhedra*, S.A. A., N.V. Bogachev, A.Yu. Vesnin, A.A. Egorov, 2021, arXiv:2111.08789 (accepted to Sbornik: Mathematics).