

# 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

Home: Institutskiy per., 6a  
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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     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      Increased State Academic Scholarship for noteworthy research achieve-  
present      ments, Moscow Institute of Physics and Technology.

## SCHOOLS AND CONFERENCES

### PARTICIPANT

Jul 2021      Summer Research Program for Undergraduates, Laboratory of Combina-  
torial and Geometric Structures, Moscow Institute of Physics and Tech-  
nology, Dolgoprudny, Russia.

Aug 2021      School “Computational Complexity Theory”, Sirius Mathematical Center,  
Sochi, Russia.

Apr 2022      Winter Mathematical School SPbSU — HSE, Saint Petersburg State Uni-  
versity, 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 Mos-  
cow, 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).