

# 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

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

- Dec 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.

Dec 2022      Summer School “Boundaries of the Singularities”, Higher School of Eco-  
nomics, 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. 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).