Boris Zolotov

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Research Interests

Theoretical computer science: algorithms, data structures, computational geometry, automated proof systems

Education

2019–present	**Master student,** St. Petersburg State University, Department of Mathematics and Computer Sciences, „Advanced Mathematics" MSc programme
2015–2019	**BSc,** St. Petersburg State University, Department of Mathematics and Computer Sciences, „Mathematics" BSc programme, bachelor's thesis:
Title	Algorithmic Aspects of Alexandrov's Uniqueness Theorem
Supervisor	Candidate of Physics and Mathematics E. A. Arseneva
Grade	Excellent

Teaching experience

2016–present	**Supervisor of the project,** „Mathematics Non-Stop", Time for Science foundation
2015–2020	Additional courses **tutor,** Laboratory for Continuous Mathematical Education, St. Petersburg
2015–present	**Supervisor** of research projects for the youth, Laboratory for Continuous Mathematical Education, St. Petersburg
2015–present	Summer school courses **tutor,** Laboratory for Continuous Mathematical Education, St. Petersburg
2018–present	Mathematics for Olympiads **tutor,** „Fractal", St. Petersburg

Grants

January 2020–present	Russian Foundation for Basic Research (RFBR), participant. Project title: Problems on the Border of Combinatorics and Computational Geometry
September 2019–present	2019 competition of the Foundation for the Advancement of Theoretical Physics and Mathematics „BASIS", participant

Conferences, schools and workshops

July 2019	XVIII Spanish Meeting on Computational Geometry, Girona, Spain, Presentation: *„A complete list of all convex polyhedra made by gluing regular pentagons"*
June 2019	Second Trans-Siberian Workshop on Computational Geometry and Data Structures
November 2016	Winter School on cubic plane curves, HSE, Moscow

Student exchanges and internships

10.2020 — 01.2021	ULB, Brussels, Master en sciences informatiques, Faculté des Sciences (via competitive selection at SPBU)

Publications

September 2019	Elena Arseneva, John Iacono, Greg Koumoutsos, Stefan Langerman, Boris Zolotov, *Sublinear Explicit Incremental Planar Voronoi Diagrams,* Journal of Information Processing, 2020 Volume 28 Pages 766-774, `https://doi.org/10.2197/ipsjjip.28.766`
	JIP Specially Selected Paper certificate Preliminary version: in JCDCG[3], 2019
September 2019	Elena Arseneva, Stefan Langerman, and Boris Zolotov, *A complete list of all convex polyhedra made by gluing regular pentagons,* Journal of Information Processing, 2020 Volume 28 Pages 791-799 `https://doi.org/10.2197/ipsjjip.28.791`
	Preliminary version: in JCDCG[3], 2019; EGC, 2019
April 2015	Boris Zolotov, *Another Solution to the Thue Problem of Non-Repeating Words,* arχiv 1505.00019

Books and Brochures (in Russian)

February 2019   Б. А. Золотов, Д. Г. Штукенберг, И. А. Чистяков,
А. В. Семенов, И. С. Алексеев,
Сборник задач олимпиады «Математика НОН-СТОП»,
373 с., ISBN 978-5-906623-38-6

December 2019   Б. А. Золотов, Д. Г. Штукенберг,
Математика НОН-СТОП—2019. Решения задач олимпиады,
72 с., ISBN 978-5-906623-47-8

December 2020   Б. А. Золотов, Е. И. Тодоров, Д. Г. Штукенберг,
Математика НОН-СТОП—2020. Решения задач олимпиады,
80 с., ISBN 978-5-6045675-2-4

Community service

April 2021   **Local organising committee** of EuroCG 2021

April 2018 — 2019   **Assistant TEX-er** of Joint Projects of
PJSC Gazprom Neft and Chebyshev Laboratory

2016–present   **Organising committee and jury,** Saint Petersburg
tournaments of young mathematicians

02.2018, 2019, 2020   **Jury,** Baltic Science And Engineering Fair