# Boris Zolotov

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#### Research Interests

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

### Professional Appointments

2019–present Student, St. Petersburg State University,

"Modern Mathematics" master programme

2015—present Additional courses **tutor** and research projects **supervisor**,

Laboratory for Continuous Mathematical Education, St. Petersburg

2018–present Mathematics for Olympiads tutor,

"Fractal", St. Petersburg

2016–present Co-Chair of Methodical Commission,

«Математика НОН-СТОП», Time for Science foundation

### Bachelor's Thesis

 ${\bf Title}\\ {\bf Supervisor}$ 

Algorithmic Aspects of Alexandrov's Uniqueness Theorem Candidate of Physics and Mathematics E. A. Arseneva

Grade Excellent

#### Grants

September 2019–present

2019 competition of the Foundation for the Advancement of Theoretical Physics and Mathematics "BASIS"  $\,$ 

# 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

### **Publications**

September 2019 Elena Arseneva, John Iacono, Greg Koumoutsos,

Stefan Langerman, Boris Zolotov,

Sublinear Explicit Incremental Planar Voronoi Diagrams,

In proceedings of the Japan Conference

on Discrete and Computational Geometry, Graphs, and Games

September 2019 Elena Arseneva, Stefan Langerman, and Boris Zolotov,

A complete list of all convex polyhedra made by gluing

regular pentagons, In proceedings of the

Japan Conference on Discrete and Computational

Geometry, Graphs, and Games

April 2015 Boris Zolotov, Another Solution to the Thue Problem

of Non-Repeating Words, arxiv 1505.00019

#### Books and Brochures

February 2019 Б. А. Золотов, Д. Г. Штукенберг, И. А. Чистяков,

А. В. Семенов, И. С. Алексеев,

Сборник задач олимпиады «Математика НОН-СТОП»,

373 c., ISBN 978-5-906623-38-6

December 2019 Б. А. Золотов, Д. Г. Штукенберг,

Математика НОН-СТОП-2019. Решения задач олимпиады,

72 c., ISBN 978-5-906623-47-8

### Community service

April 2021

Organising committee of 37th EuroCG, planned

April 2018–present

Assistant T<sub>E</sub>X-er of Joint Projects of PJSC Gazprom Neft and Chebyshev Laboratory

# Supervised research projects of 8-10-graders

2018 К. Кузнецов, «О приближении кривых»

2019 А. Ващенков, «Римская десятичная система счисления»

И. Глаголев, «Циркуляции на графах»

2020 А. Ващенков, «Алгоритм Чена—Хана для развёрток из квадратов»

И. Глаголев, «Перечисление всех развёрток из квадратов»

К. Пакульневич, «Проверка изоморфизма развёрток из квадратов»

Е. Дойникова, «Миаметры»