

Viktoriia Borovik

Master Degree in Mathematics

Born in Ukraine

+7 925 470 29 40

✉ borovikvictoriya@gmail.com

Currently in Moscow, Russia

Languages

- English: fluent
- Russian: native
- Ukrainian: fluent

Skills

- Computer Knowledge
 - Python
 - SQL (Oracle)
 - Spark, Hadoop
 - GIT
 - Dash framework
 - Latex
 - Mathematica
- Soft skills
 - Teamwork
 - Desire to learn
 - Adaptability

Education

- 2016 — 2022, Moscow

Moscow State University

Master degree,
Department of Mechanics and Mathematics,
Specialization: Higher Algebra,
Diploma with honours.

- Master Thesis

Themes: *Projective hypersurfaces that admit additive actions with finite number of orbits*

Supervisor: *Prof. S.Gaifullin*

Abstract: *An additive action on a hypersurface X in \mathbb{P}^{n+1} is an effective action of a commutative unipotent group on \mathbb{P}^{n+1} which leaves X invariant and acts on X with an open orbit. In this work, I classified all additive actions on hypersurfaces with finite number of orbits up to equivalence and described projective hypersurfaces admitting additive actions with finite number of orbits in recursive form.*

Work experience

Research assistant

Oct 2020 — current

Higher School of Economics University (Moscow, Russia)

Laboratory on Algebraic Transformation Groups ([Personal page](#))

- Research in affine algebraic geometry, group actions on algebraic varieties, varieties with torus actions and graded algebras.

Junior python developer

VTB & Innotech (Moscow, Russia)

Mar 2022 — current

One of the largest banks in Russia.

- Worked on modern platform for monitoring scoring models on Python (Dash framework) to replace old monitoring process based on excel files.

Editor

Moscow center for continuous math education (Moscow, Russia)

Jul 2021 — Jan 2022

- Worked on an electronic math book for secondary school.

Grants and funding

- Scholarship for students, Basis Foundation, winner Jul 2021 — Jan 2022
- Russian Science Foundation, Conducting fundamental scientific research and exploratory scientific research by individual scientific groups Jul 2021 — Jan 2022

Achievements

Prize winner of Moscow Math Olympiad, Kurchatov Olympiad, MIPT Olympiad.

Publications and preprints

- **In preparation:**

Projective hypersurfaces that admit additive actions with finite number of orbits.

- **Preprints:**

V. Borovik, S. Gaifullin, [m-suspensions over rigid varieties](#).

V. Borovik, S. Gaifullin, A. Shafarevich, [On orbits of automorphism groups on horospherical varieties](#).

- **Accepted for publication:**

V. Borovik, S. Gaifullin, A. Trushin, [Commutative actions on smooth projective quadrics](#), accepted for publication in the Communications in Algebra, 2022.

Volunteering

Assisted in checking Olympiads for schoolchildren.

Assisted in taking an intermediate exam for undergraduate students.

Talks

The eighth school-conference on Lie Algebras, Algebraic groups and Invariant Theory, January 2020

- Commutative actions on smooth projective quadrics (Poster)