

EDUCATION

Johns Hopkins University Ph.D. in Mathematics, Advisor: Vyacheslav Shokurov	Baltimore, USA 2022–2028 (Expected)
Johns Hopkins University M.A. in Mathematics	Baltimore, USA 2022–2023
Moscow Institute of Physics and Technology B.S. in Applied Physics and Mathematics, with Honors	Moscow, Russia 2018–2022

PUBLICATIONS AND PREPRINTS

- [1] D. Serebrennikov, “Constructibility aspects of the cone conjecture”, 2026, Submitted. [arXiv:2604.27303](https://arxiv.org/abs/2604.27303).
- [2] D. Serebrennikov, “On the finiteness of log surfaces”, *Int. J. Math.*, 2026, Accepted. [arXiv:2510.14795](https://arxiv.org/abs/2510.14795).

AWARDS

• Professor Joel Dean Award for Excellence in Teaching	2025
• Enhanced State Academic Scholarship for Leadership and Service	2021–2022
• Abramov–Frolov Foundation Scholarship for Academic Excellence	2018–2021

TEACHING

Johns Hopkins University • Teaching Assistant Differential Equations • Teaching Assistant Calculus III • Teaching Assistant Linear Algebra • Grader Algebra I, Algebra II	Spring 2024, Fall 2024, Spring 2025 (Head TA) Fall 2023, Fall 2026 Fall 2025 (Head TA) Spring 2024, Fall 2026
Moscow Public School No. 1560 • High School Math Teacher Algebra and Geometry	2021–2022

SERVICE

- Reviewer for zbMATH

RESEARCH TALKS

Constructibility aspects of the cone conjecture

- **Algebraic Geometry Seminar** Sep 2026
Duke University

On the finiteness of log surfaces

- **AGNES, Problem Session** May 2026
Rutgers University
- **Algebraic Geometry Seminar** Jan 2026
University of Illinois Chicago
- **AGNES, Poster Session** Nov 2025
University of Massachusetts Amherst

EXPOSITORY TALKS

Johns Hopkins University

- **Algebraic Geometry Preprint Seminar** Apr 2026
On L-equivalence for K3 surfaces and hyperkähler manifolds, preprint
- **Algebraic Geometry Preprint Seminar** Oct 2025
Baily–Borel compactifications of period images and the b-semiampleness conjecture, preprint
- **Graduate Student Seminar** Sep 2025
What is a K3 surface?
- **Graduate Student Seminar** Apr 2025
Constructibility in Algebraic Geometry
- **Algebraic Geometry Preprint Seminar** Mar 2025
Boundedness of elliptic Calabi–Yau threefolds, preprint
- **Graduate Student Seminar** Feb 2025
Rigidity of Algebraic Geometry
- **Algebraic Geometry Preprint Seminar** Mar 2024
Moduli of boundary polarized Calabi–Yau pairs, preprint
- **Graduate Student Seminar** Feb 2024
Singularities of varieties
- **Graduate Student Seminar** Dec 2023
Birational Geometry and Calabi–Yau varieties
- **Topics in Algebraic Geometry** Dec 2023
Boundedness of log Calabi–Yau pairs of Fano type, preprint
- **Algebraic Geometry Seminar** Nov 2022
Finiteness of log Calabi–Yau surfaces
- **Goodwillie Calculus Learning Seminar** Oct 2022
Cubic Diagrams
- **What is... Seminar** Sep 2022
What is birational geometry?

University of Illinois Chicago

- **Graduate Algebraic Geometry Seminar** Apr 2026
Towards a moduli space of Calabi–Yau varieties
- **Toric Compactifications Learning Seminar** Apr 2026
The b-semiampleness conjecture

- **Birational Geometry Learning Seminar** Apr 2026
The Non-vanishing and Basepoint-free Theorems

Moscow Institute of Physics and Technology

- **Summer Mini-Course** Jul 2024
Introduction to Birational Geometry, 4 lectures
- **Pro-Seminar** Jun 2023
A cone conjecture for log Calabi–Yau surfaces, preprint

Northwestern University

- **Informal Algebraic Geometry Oberseminar** Feb 2026
The Cone Conjecture, Calabi–Yau varieties and All That

CONFERENCES/WORKSHOPS ATTENDED

- **Forty Years of Higher Dimensional Geometry** Jun 2026
Princeton University
- **Foliations and Birational Geometry** May 2026
University of Michigan
- **Algebraic Geometry Northeastern Series (AGNES)** May 2026
Rutgers University
- **Algebra and Number Theory Day** Apr 2026
Johns Hopkins University
- **Algebraic Geometry Northeastern Series (AGNES)** Nov 2025
University of Massachusetts Amherst
- **Algebra and Number Theory Day** Nov 2025
University of Maryland
- **Higher Dimensional Geometry** Oct 2025
Simons Foundation
- **I. R. Shafarevich Memorial Lectures** Jun 2025
Steklov Mathematical Institute
- **Georgia Algebraic Geometry Symposium** Mar 2025
University of Georgia
- **Winter school on enumerative geometry and mirror symmetry** Jan 2025
California Institute of Technology
- **K-trivial Varieties and Their Moduli** Jan 2025
University of California San Diego
- **Algebra and Number Theory Day** Nov 2024
Johns Hopkins University
- **Summer school on classical, derived and condensed geometry** July 2024
Moscow Institute of Physics and Technology
- **Algebraic Geometry Northeastern Series (AGNES)** Mar 2024
Boston College
- **Winter School on New Applications of Mixed Hodge Modules** Jan 2024
Simons Center for Geometry and Physics
- **Higher Dimensional Algebraic Geometry: James 60** Jan 2024
University of California San Diego
- **I. R. Shafarevich Centenary Conference** Jun 2023

Steklov Mathematical Institute

- **Algebra and Number Theory Day**
Johns Hopkins University
- **Algebra and Number Theory Day**
University of Maryland

Apr 2023

Nov 2022

LEADERSHIP & SERVICE

**Student Council, Department of General and Applied Physics (DGAP),
Moscow Institute of Physics and Technology (MIPT)**

- Chair 2021–2022
- Vice Chair, Lead Student Housing Coordinator 2020–2021
- Head of the Housing Committee, Senior Student Housing Coordinator 2019–2020
- Co-organizer of MIPT Open Day, Phystech Olympiad, Commencement Ceremony, etc. 2018–2019

MISCELLANEOUS

Winner of Russian Physics/Mathematics Olympiads for High School students (2017–2018).

Far Eastern Federal University

Vladivostok, Russia

Laboratory of Thin Film Technologies, Advisor: Aleksandr Davydenko

2015–2017

- Measured the surface morphology and magnetic domain structure of a Pd/Co/Pd thin film with perpendicular magnetic anisotropy.
- Established an empirical relationship between perpendicular magnetic anisotropy and the thicknesses of the lower Pd and Co layers in the polycrystalline Pd/Co/Pd thin film.
- Developed LabVIEW software to automate data acquisition and thickness monitoring for a quartz crystal microbalance in the Laboratory of Thin Film Technologies.

Languages: Russian (native), English (fluent), French (elementary), Mathematics (proficient).