

Alisa Chistopolskaia

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Born: October 1, 1996—Moscow, Russia

Education

2022 – present	University of Toronto PhD in Mathematics Supervisor — Michael Gröchenig
2020 – 2021	National Research University «Higher School of Economics», BSc in Mathematics Supervisor — Ivan Arzhantsev.
2015 – 2020	Lomonosov Moscow State University, Faculty of Mechanics and Mathematics, Department of Higher Algebra Supervisor — Ivan Arzhantsev.

Mathematical interests

Algebraic geometry of moduli spaces, Geometric invariant theory, Representation theory. At the moment I'm working on adapting p -adic integration techniques used by my advisor Michael Gröchenig for Higgs bundles and Artin stacks to the moduli spaces of quiver's representations.

Publications and preprints

2022	Alisa Chistopolskaya and Gregory Taroyan. Infinite transitivity for automorphism groups of the affine plane, arXiv:2202.02214
2019	Alisa Chistopolskaya. On nilpotent generators of the symplectic Lie algebra. <i>Linear and Multilinear Algebra</i> , 70.3, 490-496, https://doi.org/10.1080/03081087.2020.1734522
2018	Alisa Chistopolskaya. On nilpotent generators of the Lie algebra $\mathfrak{sl}_n$. <i>Linear Algebra and its Applications</i> , 559, 73-79, https://doi.org/10.1016/j.laa.2018.09.005

Awards and scholarships

2025	Canadian Mathematical Society Graduate Scholarship
2024	Ida Bulat Memorial Graduate Fellowship

Talks

August 2021	The ninth school-conference on Lie Algebras, Algebraic groups and Invariant Theory, Samara. Talk Infinite transitivity for automorphism groups of the plane generated by a finite collection of additive subgroups.
January 2020	The eighth school-conference on Lie Algebras, Algebraic groups and Invariant Theory, Moscow. Poster On nilpotent generators of the Lie algebras $\mathfrak{sl}_n$ and $\mathfrak{sp}_{2n}$
October 2019	Conference “Algebraic transformation groups: the mathematical legacy of Domingo Luna”, Rome. Poster On nilpotent generators of the Lie algebras $\mathfrak{sl}_n$ and $\mathfrak{sp}_{2n}$
May 2019	Conference “Department of Higher Algebra becomes 90”, Moscow. Talk On nilpotent generators

March 2019	of the Lie algebras $\mathfrak{sl}_n$ and $\mathfrak{sp}_{2n}$ E. Vinberg's Seminar on Algebra and Geometry, Moscow. Talk On nilpotent generators of the Lie algebra $\mathfrak{sl}_n$
August 2018	The seventh school-conference on Lie Algebras, Algebraic groups and Invariant Theory, Samara. Talk On nilpotent generators of the Lie algebra $\mathfrak{sl}_n$

Other attended conferences

July 2025	Summer Research Institute in Algebraic Geometry, Fort Collins.
June 2025	Workshop "Lean for mathematicians", New York.
June 2025	Conference on the Langlands Program, Boston.
September 2024	D-modules, local systems and applications, Montreal.
June 2024	Canadian Mathematical Society summer meeting, Saskatoon.
December 2023	Canadian Mathematical Society winter meeting, Montreal.

Teaching

Winter 2026	MAT344: Introduction to Combinatorics, University of Toronto
Summer 2025	MAT402: Classical Geometries, University of Toronto

TAing

Fall 2025	MAT402: Classical Geometries, University of Toronto
Winter 2025	Observation TA, University of Toronto
Winter 2025	MAT224: Linear Algebra II, University of Toronto
Fall 2024	MAT344: Introduction to Combinatorics, University of Toronto
Fall 2024	MAT402: Classical Geometries, University of Toronto
Winter 2024	MAT315: Introduction to Number Theory, University of Toronto
Fall 2023	MAT402: Classical Geometries, University of Toronto
Fall 2023	Math Learning Centre
Summer 2023	MAT224: Linear Algebra II, University of Toronto
2022-2023	MAT237: Multivariable Calculus with Proofs, University of Toronto
2021-2022	Calculus-III and IV, National Research University «Higher School of Economics»

Service

2025 – present	CUPE 3902 Unit 1 Steward for the Department of Mathematics
2024 – 2025	Academic chair of the Mathematics Graduate Student Association , University of Toronto