

Anna Abasheva

Curriculum Vitae

PERSONAL DETAILS

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EDUCATION

PhD student

Columbia University, New York

since Sep.
2020

Master in Mathematics

Independent University of Moscow, Moscow

Sep. 2014 -
Jun. 2020

Bachelor in Mathematics

Higher School of Economics, Moscow

Sep. 2014 -
Jun. 2020

POSITIONS

- since Sep. 2020 – teaching assistant at Columbia University.
- Oct. 2019 – Dec. 2020 – research assistant at the Laboratory of Algebraic Geometry at Higher School of Economics, Moscow.

PUBLICATIONS

Feix–Kaledin metric on the total spaces of cotangent bundles to Kähler quotients, Int. Math. Res. Not., 2022(17):13054-13098, May 2022. arXiv:2007.05773.

PREPRINTS

- (with M. Verbitsky) *Algebraic dimension and complex subvarieties of hypercomplex nilmanifolds*, arXiv:2103.05528
- (with V. Rogov) *Shafarevich–Tate groups of holomorphic Lagrangian fibrations*, 2021, arXiv:2112.10921

TALKS

Talks at conferences:

- *Non-algebraicity of hypercomplex nilmanifolds*, II Junior Poisson Meeting, Zoom, 2021.

Research talks at seminars:

- *Non-algebraicity of hypercomplex nilmanifolds*, Higher School of Economics, Seminar of the Laboratory of Algebraic Geometry, Zoom, 2021.

- *From Feix-Kaledin metric to algebraic geometry*, joint UCL/KCL differential geometry student seminar, Zoom, 2021.

Posters:

- *Shafarevich–Tate groups of holomorphic Lagrangian fibrations*. Geometric Structures (Re)united. University of Illinois Chicago, Chicago, IL, USA. June 2022.
- *Shafarevich–Tate groups of holomorphic Lagrangian fibrations*. GAeL conference (Géométrie Algébrique en Liberté). Laboratoire de Mathématiques d’Orsay, Université Paris-Saclay, Paris, France. May 2022.

Seminars I (co)organized:

- Geometric Invariant Theory, Fall 2020, with P. Lei;
- Non-abelian Hodge correspondence and $P=W$ conjecture, Fall 2022.

PARTICIPATION IN CONFERENCES

List of schools, workshops and conferences I attended:

- *AGNES (Algebraic geometry Northeastern series)*. UMass, Amherst, MA, USA, Nov 18-20.
- *Conference on Higher Dimensional Geometry*. Simons Foundation, New York, NY, USA, Oct 24-28.
- *Algebraic Geometry, Mathematical Physics, and Solitons. Celebrating the work of Igor Krichever*. Columbia University, New York, NY, USA, Oct 7–9, 2022.
- *Conference on Higher Dimensional Geometry*. Simons Center, Stony Brook, NY, USA, Aug 22-26.
- *Derived Categories, Moduli Spaces, and Hyperkähler Varieties*. University of Michigan, MI, USA, Jul 30–Aug 5, 2022.
- *Geometric Structures (Re)united*. University of Illinois Chicago, Chicago, IL, USA. Jun 13–17, 2022.
- *GAeL conference (Géométrie Algébrique en Liberté)*. Laboratoire de Mathématiques d’Orsay, Université Paris-Saclay, Paris, France. May 23–27, 2022.
- *Deformations of Geometric Structures in Current Mathematics: “A celebration of the works of Masatake Kuranishi”*. Columbia University, May 3-6, 2022.
- *Programa de Verão (Summer program)*. Rio de Janeiro, Brazil, Jan 6 - Feb 28, 2020.
- *Algebra and geometry*. Yaroslavl, Russia, June. Attended in years 2015–17, 2019, 2021.
- *Arakelov geometry and diophantine applications*. Grenoble, France, June 2017.
- *Geometry on Fontanka*. Saint-Petersburg, Russia, summer 2017.
- *Modern mathematics*. Dubna, Russia, summer 2014, 2015.
- *Modern mathematics*. Bremen, Germany, summer 2015.