

# Igor Krylov

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## Employment

Postdoc in University of Bayreuth 09.2017-09.2018

Guest researcher at Max Planck Institute of Mathematics 01.2017-08.2017.

## Education

PhD in Mathematics

University of Edinburgh, 2013-2017

Supervisor: Professor I. Cheltsov

Specialist in Mathematics

Moscow State University, 2008-2013

Supervisor: Professor Y. G. Prokhorov

## Research interests

Birational Geometry, Birational Rigidity, Cremona group, Existence of Good Models, Semiorthogonal Decomposition.

## Preprints

- [Birational rigidity of orbifold degree 2 del Pezzo fibrations.](#)  
Submitted to Journal of Algebraic geometry.
- [Stable rationality of del Pezzo fibrations of low degree over projective spaces.](#)  
Submitted to Compositio Mathematica.

- [Birational geometry of del Pezzo fibrations with terminal quotient singularities.](#)  
Submitted to Journal of LMS.
- [Rationally connected non Fano type varieties.](#)  
Submitted to European Journal of Mathematics.

## Grants

[2016 HIMR Focused Research Grant, 4300 pounds](#)

## Talks in seminars and conferences

- Iskovskih seminar in Steklov Institute, Moscow, Russia, September 2017.
- EDGE days, Edinburgh, June 2017.
- Geometry seminar in Loughborough University, UK, May, 2017.
- Oberseminar in Max Planck Institute of Mathematics, Germany, April 2017.
- Algebraic geometry seminar in Higher School of Economics, February Moscow, Russia, 2017.
- Shavarevich seminar in Steklov Institute, Moscow, Russia, February 2017.
- Liverpool algebraic geometry seminar, November 2016.
- Manchester geometry seminar, October 2016.
- EDGE days, Edinburgh, June 2016.
- Algebraic geometry seminar in John Hopkins University, March, 2016.
- Algebraic geometry seminar in New-York University, March, 2016.
- Edinburgh Geometry seminar, UK, March 2016.
- Algebraic geometry seminar in Higher School of Economics, Moscow, Russia, February 2016.
- 5th Swiss-French workshop on algebraic geometry, Charmey, Switzerland, January 2016.
- Geometry seminar in University of Liverpool , UK, December, 2015.
- Edinburgh Geometry seminar, UK, October, 2015.
- Conference on Finite subgroups of Cremona group, Trento, Italy, August 2015.

- Algebraic geometry seminar in IBS-CGP, Pohang, Korea, June 2015.
- EDGE days, Edinburgh, June 2015.

I have been organizing an algebra and geometry seminar for PhD students and post-docs in University of Edinburgh (2014-2016)

## Participation in conferences

- [Spring Meeting on Algebraic Geometry](#) (Iran, Tehran, April 2017)
- [Cremona Conference](#) (Switzerland, Basel, September 2016)
- [EDGE days](#) (UK, Edinburgh, June 2016)
- [Heilbronn Focused Research Workshop on Rationality Questions Part II](#) (United Kingdom, University of Warwick, February 2016)
- [5th Swiss-French workshop on algebraic geometry](#) (Switzerland, Charmey, January 2016)
- [Heilbronn Focused Research Workshop on Rationality Questions Part I](#) (United Kingdom, University of Bristol, January 2016)
- [Finite subgroups of Cremona group](#) (Italy, Trento, August 2015)
- [AMS Summer research institute on algebraic geometry](#) (US, Salt Lake City, July 2015)
- [The graduate student bootcamp for 2015 summer research institute](#) (US, Salt Lake City, July 2015)
- [Rationality problems in algebraic geometry](#) (Italy, Levico Terme, June 2015)
- [EDGE days](#) (UK, Edinburgh, June 2015)
- [Minimal free resolutions, Betti numbers, and combinatorics](#) (UK, EDINBURGH, ICMS, JUNE 2015)
- [New Techniques in Birational Geometry](#) (USA, STONY BROOK UNIVERSITY, APRIL 2015)
- [British Algebraic Geometry meeting](#) (UNITED KINGDOM, UNIVERSITY OF WARWICK, SEPTEMBER 2014)
- [EDGE days](#) (UNITED KINGDOM, UNIVERSITY OF EDINBURGH, JUNE 2014)
- [Categorically Cardiff](#) (UNITED KINGDOM, CARDIF UNIVERSITY, OCTOBER 2013)

- [Teach-in on algebraic geometry](#) (UNITED KINGDOM, UNIVERSITY OF WARWICK, SEPTEMBER 2013)
- [Birational and affine geometry](#)
- [New Perspectives on the classification of Fano Manifolds](#) (ITALY, INTERNATIONAL CENTRE FOR MECHANICAL SCIENCES, OCTOBER 2014)
- ["KULIFEST" dedicated to the 60th anniversary of Vik. S. Kulikov](#) (RUSSIA, MOSCOW, APRIL 2012)

## Teaching experience

I have been a tutoring for 6-7 hours a week in Edinburgh university. I was a tutor for the following courses in Edinburgh throughout 2013-2016

- Two semesters of Introduction to Linear algebra in the University of Edinburgh.
- Two semesters of Calculus and applications.
- Four semesters of support workshops for the two courses above.
- One semester of Introduction to Number Theory.
- Three semesters of Differential Geometry.
- Two semesters of Engineering mathematics.

I have also attended the following workshops on teaching.

- Workshop organized by Higher Education Academy for postgraduate students who teach mathematics, statistics, and operational research. (Edinburgh, 2015)
- Workshop "Assessment and Providing Feedback in the Sciences". (Edinburgh, 2015)
- Workshop "Tutoring in the Sciences". (Edinburgh, 2015)

## Language Proficiency

Russian: native

English: fluent

German: basic