

## IVAN CHELTSOV

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- Degrees awarded:
  - Doctor of Science, Steklov Institute, Moscow (Russia), 2006,
  - Ph.D. in Mathematics, Johns Hopkins University, Baltimore (USA), 2000,
  - B.Sc. in Mathematics, Moscow State University, Moscow (Russia), 1995.
- Career since graduation:
  - Professor, University of Edinburgh, 2012–present,
  - Reader (Associate Professor), University of Edinburgh, 2008–2012,
  - Lecturer (Assistant Professor), University of Edinburgh, 2004–2008,
  - Postdoctoral Associate, University of Georgia, 2002–2004,
  - Lecturer (Assistant Professor), University of Liverpool, 2000–2001.
- Research grants:
  - Simons Collaboration on Moduli of Varieties \$888000, 2024–2028,
  - EPSRC Grant EP/V054597/1, £78027, 2022–2024,
  - Leverhulme Trust grant VP1-2022-004, £52458, 2023,
  - Leverhulme Trust grant RPG-2021-229, £145438, 2021–2025,
  - Royal Society Grant IE180205, £10780, 2018–2020,
  - Royal Society Grant IE111456, £9182, 2012–2014,
  - EPSRC Grant EP/E048412/1, £186379, 2007–2009.
- Postgraduate students supervision:
  - (1) Dimitra Kosta (2005–2009), Royal Society Research Fellow (Edinburgh),
  - (2) Andrew Wilson (2006–2010), Lecturer at the University of Glasgow,
  - (3) Ilya Karzhemanov (2007–2010), Associate Professor at MIPT (Moscow),
  - (4) Dmitrijs Sakovics (2009–2013), Software Developer at Valtech (Bristol),
  - (5) Jesus Martinez Garcia (2010–2013), Senior Lecturer at the University of Essex,
  - (6) Igor Krylov (2013–2016), Senior Research Fellow in IBS (Pohang),
  - (7) Nivedita Viswanathan (2017–2021), Lecturer at Queen Mary University London,
  - (8) Arman Sarikyan (2020–2024), Research Fellow at London Institute for Mathematical Sciences,
  - (9) Antoine Pinardin (2021–present),
  - (10) Elena Denisova (2021–present),
  - (11) Joseph Malbon (2022–present),
  - (12) Raisa Serova (2024–present).
- Editorial experience:
  - *Taiwanese Journal of Mathematics*, 2023–present,
  - *Algebraic Geometry and Physics*, 2022–present,
  - *Annali dell Universita di Ferrara*, 2022–present,
  - *International Journal of Mathematics*, 2024–present,
  - *Journal of the Korean Mathematical Society*, 2021–present,
  - *European Journal of Mathematics*, 2019–present,
  - *Proceedings of Edinburgh Mathematical Society*, 2007–2017.

- Books published:
  - (1) *The Calabi problem for Fano threefolds*,  
Cambridge University Press (2023), LMS lecture series, 450 pages,  
co-authors: Carolina Araujo, Ana-Maria Castravet, Kento Fujita, Anne-Sophie Kaloghiros, Jesus Martinez-Garcia, Constantin Shramov, Hendrik Süß, Nivedita Viswanathan
  - (2) *Birationally rigid Fano threefold hypersurfaces*,  
Memoirs of the American Mathematical Society (2017), 117 pages,  
co-author: Jihun Park,
  - (3) *Cremona groups and the icosahedron*,  
Chapman and Hall/CRC (2015), 527 pages,  
co-author: Constantin Shramov.
- Books edited:
  - (1) *Automorphisms in Birational and Affine Geometry*, Springer, 2012.
  - (2) *Shokurov volume*, European Journal of Mathematics, 2014,
  - (3) *Spitsbergen volume*, European Journal of Mathematics, 2016,
  - (4) *Magadan volume*, Bulletin of the Korean Mathematical Society, 2017,
  - (5) *Edge volumes I and II*, European Journal of Mathematics, 2018,
  - (6) *Easter Island volume*, European Journal of Mathematics, 2019,
  - (7) *Fuerteventura Island volume*, EMS Surveys in Mathematical Sciences, 2021,
  - (8) *New Zealand volume*, European Journal of Mathematics, 2022,
  - (9) *Birational Geometry, Kähler–Einstein Metrics and Degenerations*, Springer, 2023,
  - (10) *Edge volume: 2018–2022*, Annali dell’Universita di Ferrara, 2024,
  - (11) *Memorial Volume for Sasha Anan’in*, Sao Paulo Journal of Mathematical Sciences, 2024.
- Recent papers:
  - (1) *Equivariant geometry of the Segre cubic and the Burkhardt quartic*,  
Selecta Mathematica, to appear,  
co-authors: Y. Tschinkel, Z. Zhang,
  - (2) *K-stability of Casagrande-Druel varieties*,  
Journal für die Reine und Angewandte Mathematik, to appear,  
co-authors: T. Duarte Guerreiro, K. Fujita, I. Krylov, J. Martinez-Garcia,
  - (3) *One-dimensional components in the K-moduli of smooth Fano 3-folds*,  
Journal of Algebraic Geometry, to appear,  
co-authors: H. Abban, E. Denisova, E. Etxabbarri-Alberdi, A.-S. Kaloghiros,  
D. Jiao, J. Martinez-Garcia, T. Papazachariou,
  - (4) *On K-moduli of quartic threefolds*,  
Algebraic Geometry, to appear,  
co-authors: H. Abban, A. Kasprzyk, Y. Liu, A. Petracci,
  - (5) *Birational involutions of the real projective plane*,  
Journal of the European Mathematical Society, to appear,  
co-authors: I. Cheltsov, F. Mangolte, E. Yasinsky, S. Zimmermann,
  - (6) *On maximally non-factorial nodal Fano threefolds*,  
Revista Matemática Iberoamericana, to appear,  
co-authors: I. Krylov, J. Martinez Garcia, E. Shinder.
  - (7) *K-stable smooth Fano threefolds of Picard rank two*,  
Forum of Mathematics, Sigma **12** (2024), paper e41, 64 pages,  
co-authors: E. Denisova, K. Fujita,
  - (8) *Equivariant pliability of the projective space*,  
Selecta Mathematica **29** (2023), paper 71, 84 pages,  
co-author: A. Sarikyan,

- (9) *Toric G-solid Fano threefolds*,  
 Selecta Mathematica **29** (2023), paper 22, 45 pages,  
 co-authors: A. Dubouloz, T. Kishimoto,
- (10) *K-stable divisors in  $\mathbb{P}^1 \times \mathbb{P}^1 \times \mathbb{P}^1$  of degree  $(1, 1, 2)$* ,  
 Nagoya Mathematical Journal **251** (2023), 686–714,  
 co-authors: K. Fujita, T. Kishimoto, T. Okada,
- (11) *Kähler–Einstein Fano threefolds of degree 22*,  
 Journal of Algebraic Geometry **32** (2023), 385–428,  
 co-author: C. Shramov,
- (12) *Birational self-maps of threefolds of (un)-bounded genus or gonality*,  
 American Journal of Mathematics **144** (2022), 575–597,  
 co-authors: J. Blanc, A. Duncan, Y. Prokhorov.
- Recently organized conferences and workshops:
  - *Algebraic Geometry Workshop*,  
 16th–18th December 2024, Sydney Mathematical Research Institute, Sydney (Australia),  
 co-organizer: D. Chan, J. Hall, B. Taji, G. Williamson,
  - *Algebraic Geometry*,  
 9th–13th December 2024, MATRIX, Creswick (Australia),  
 co-organizers: D. Chan, B. Taji, C. Voisin, G. Williamson,
  - *Birational Geometry and Number Theory*,  
 28th October – 1st November 2024, ICMS, Edinburgh (Scotland),  
 co-organizers: D. Loughran, A. Pinardin,
  - *Fano varieties in Cetraro*,  
 9th–13th September 2024, Grand Hotel San Michele, Cetraro (Italy),  
 co-organizers: A. Fanelli, E. Shinder, S. Zimmermann,
  - *Varieties with Boundaries*,  
 25th–28th June 2024, Japan Russia Friendship Center, Wakkanai (Japan),  
 co-organizers: A. Dubouloz, T. Kishimoto, T. Okada,
  - *Conference on higher dimensional geometry*,  
 6th May–10th May 2024, Simons Foundation, New York (USA),  
 co-organizers: P. Cascini, J. McKernan, C. Xu.