



## Publications

1. New rational cubic fourfolds arising from Cremona transformations (with Yu-Wei Fan), *Algebraic Geometry*, accepted.
2. Bijective Cremona transformations of the plane (with Shamil Asgarli, Masahiro Nakahara, and Susanna Zimmermann), *Selecta Mathematica, New Series*, <https://doi.org/10.1007/s00029-022-00768-0>.
3. Uniform potential density for rational points on algebraic groups and elliptic K3 surfaces (with Masahiro Nakahara), *International Mathematics Research Notices*, <https://doi.org/10.1093/imrn/rnab237>.
4. Decompositions of Lagrangian classes on K3 surfaces (with Yu-Shen Lin and Luca Schaffler), *Mathematical Research Letters*, [in press](#).
5. Transverse lines to surfaces over finite fields (with Shamil Asgarli and Lian Duan), *manuscripta mathematica* 165 (2021), 135–157.
6. Cremona transformations and derived equivalences of K3 surfaces (with Brendan Hassett), *Compositio Mathematica* 154 (2018), no. 7, 1508–1533.
7. New cubic fourfolds with odd degree unirational parametrizations, *Algebra and Number Theory* 11 (2017), 1597–1626.

## Academic Presentations

- 2022 Birational Complexity of Algebraic Varieties, Simons Center for Geometry and Physics (SCGP), December 12–16
- Algebraic and Arithmetic Geometry Seminar, Universität Bielefeld, June 01
  - Colloquium, National Tsing Hua University, March 21
- 2021 Arithmétique et géométrie algébrique, Université de Strasbourg, December 09
- Seminar Algebraic Geometry, Universität Bonn, November 18
  - A tour of the rationality problem of cubic fourfolds, Academia Sinica, Taipei, Lecture series during July 28–August 03.
  - Seminar of Algebraic Geometry in East Asia, April 16. (Remote)
- 2020 International Congress of Chinese Mathematicians (ICCM) at the University of Science and Technology of China, December 27–29. (Remote)
- Mathematical Physics Seminar, Center of Mathematical Sciences and Applications (CMSA) at Harvard University, April 20. (Remote)
  - Geometry, Physics, and Representation Theory Seminar, Northeastern University, January 23.
  - Colloquium, National Central University, Taiwan, January 09.
- 2019 Front Range Algebraic Geometry and Number Theory (FRAGMENT) seminar, Colorado State University, December 12.
- Algebra and Number Theory Seminar, Dartmouth College, September 17.
  - A Summer Day on Algebraic Geometry, Center for Advanced Study in Theoretical Sciences (CASTS), July 01.
  - Valley Geometry Seminar, UMass Amherst, March 08.

