Fumiaki Suzuki

Contact Information	Institute of Algebraic Geometry, Leibniz University Hannover Welfengarten 1, 30167 Hannover, Germany suzuki@math.uni-hannover.de https://fumiaki-suzuki.github.io/
Research Interests	Algebraic geometry, especially, algebraic cycles, birational geometry, and Hodge theory.
Employment	Leibniz University Hannover
	Wissenschaftlicher Mitarbeiter (Postdoc), funded by the ERC Starting Grant "RationAlgic", July 2023 - present, Mentor: Stefan Schreieder
	University of California, Los Angeles
	Hedrick Assistant Adjunct Professor, July 2020 - June 2023, Mentor: Burt Totaro
Education	University of Illinois at Chicago
	Ph.D. in Mathematics, May 2020, Advisor: Lawrence Ein
	University of Tokyo
	M.S. in Mathematics, March 2015, Advisor: Yujiro Kawamata B.S. in Mathematics, March 2013
PUBLICATIONS	 An O-acyclic variety of even index (with J. C. Ottem, and an appendix by O. Wittenberg), Mathematische Annalen 388 (2024), no. 3, 3025–3052. DOI:10.1007/s00208-023-02581-2
	 Non-injectivity of the cycle class map in continuous l-adic cohomology (with F. Scavia), Forum of Mathematics, Sigma 11 (2023), e6, 19 pp. DOI:10.1017/fms.2023.1
	 Higher-dimensional Calabi-Yau varieties with dense sets of rational points, European Journal of Mathematics 8 (2022), no. 1, 193–204. DOI:10.1007/s40879-021-00506-4
	 Factorization of the Abel-Jacobi maps, Épijournal de Géométrie Algébrique 5 (2021), Art. 20, 9 pp. DOI:10.46298/epiga.2021.6969
	 Birational superrigidity and K-stability of projectively normal Fano manifolds of index one, Michigan Mathematical Journal 70 (2021), no. 4, 779–792. DOI:10.1307/mmj/1599789615
	 A remark on a 3-fold constructed by Colliot-Thélène and Voisin, Mathematical Research Letters 27 (2020), no. 1, 301–317. DOI:10.4310/MRL.2020.v27.n1.a15
	 A pencil of Enriques surfaces with non-algebraic integral Hodge classes (with J. C. Ottem), Mathematische Annalen 377 (2020), no. 1-2, 183–197. DOI:10.1007/s00208-020-01969-8
	 Birational rigidity of complete intersections, Mathematische Zeitschrift 285 (2017), no. 1-2, 479–492. DOI:10.1007/s00209-016-1717-7

Preprints	 Arithmetic and birational properties of linear spaces on intersections of two quadrics (with L. Ji), submitted. arXiv:2402.18857 			
	 Two coniveau filtrations and algebraic equivalence over finite fields (with F. Scavia), submitted. arXiv:2304.08560 			
	 Non-algebraic geometrically trivial cohomology classes over finite fields (with F. Scavia), submitted. arXiv:2206.12732 			
Awards	• Fellowship for the Junior Trimester Program "Algebraic geometry: derived construction gories, Hodge theory, and Chow groups", Hausdorff Research Institute for Marmatics, September - December 2023			
	• Junior Fellowship for the Research Program "Moduli and Algebraic Cycles", Mittag- Leffler Institute, August - December 2021 (visit canceled due to the pandemic)			
	• AMS-Simons Travel Grant, American Mathematical Society and Simons Foundation, 2021 - 2023			
	• Course Student of Leading Graduate Course for Frontiers of Mathematical Sciences and Physics (FMSP), University of Tokyo, 2013 - 2016			
Invited Conference Talks	• North German Algebraic Geometry Seminar (NoGAGS), University of Oldenburg, Oldenburg, Germany, February 29, 2024.			
	• MPS Conference on Higher Dimensional Geometry, Simons Center for Geometry and Physics, Stony Brook, NY, USA, May 10, 2023.			
	• Birational Complexity of Algebraic Varieties, Simons Center for Geometry and Physics, Stony Brook, NY, USA, December 13, 2022.			
	• Algebraic Geometry Northeastern Series (AGNES) at Boston College, online, October 24, 2021.			
	• AMS Sectional Meeting, Special Session on Homological and Characteristic $p > 0$ Methods in Commutative Algebra, University of Wisconsin-Madison, Madison, WI, USA, September 15, 2019.			
	• Midwest Algebraic Geometry Graduate Conference (MAGGC), University of Illinois at Chicago, Chicago, IL, USA, March 16, 2019.			
	• AMS Sectional Meeting, Special Session on Advances in Birational Geometry, University of Arkansas, Fayetteville, AR, USA, November 3, 2018.			
	• Princeton-Tokyo Algebraic Geometry Conference, Princeton University, Princeton, NJ, USA, May 8, 2016.			
	• Younger Generations in Algebraic and Complex Geometry, National Taiwan University, Taiwan, January 12, 2016.			
	• Singularities and Invariants of Higher Dimensional Algebraic Varieties, Research Institute for Mathematical Sciences (RIMS), Kyoto, Japan, December 14, 2015.			
Invited Seminar Talks	• Bielefeld University Algebraic and Arithmetic Geometry Seminar, Bielefeld, Ger- many, May 15, 2024.			
	• EPFL Groups, Arithmetic and Algebraic Geometry Seminar, Lausanne, Switzer- land, April 23, 2024.			
	• UCLA Birational Geometry Seminar (BGS), online, April 12, 2024.			
	• Leibniz University Hannover AG Seminar, Hannover, Germany, December 14, 2023.			

•	More Algebraic	Geometry	at the	Hausdorff	Institute	(MAGHI),	Bonn,	Germany,
	October 23, 202	3.						

- UCSB Seminar on Geometry and Arithmetic, Santa Barbara, CA, USA, April 13, 2023.
- Purdue University AG Seminar, West Lafayette, IN, USA, March 22, 2023.
- UCLA Algebra Seminar, Los Angeles, CA, USA, March 3, 2023.
- FRAGMENT Seminar, University of Colorado Boulder, Boulder, CO, USA, January 19, 2023.
- University of Tokyo and Kyoto University Joint AG Seminar, online, July 1, 2021.
- Zoom Algebraic Geometry (ZAG) Seminar, online, June 10, 2021.
- UCLA Algebra Seminar, online, May 13, 2021.
- Nihon University Singularity Seminar, online, April 26, 2021.
- University of Michigan AG Seminar, online, February 17, 2021.
- Princeton University AG Seminar, online, January 26, 2021.
- Washington University in St. Louis AG Seminar, St. Louis, MO, USA, December 13, 2019.
- AIM Workshop on Rationality problems in algebraic geometry, American Institute of Mathematics, San Jose, CA, USA, August 2, 2019.
- Nihon University Singularity Seminar, Tokyo, Japan, July 1, 2019.
- University of Tokyo AG Seminar, Tokyo, Japan, June 19, 2019.
- Johns Hopkins University AG Seminar, Baltimore, MD, USA, February 13, 2018.
- Nihon University Singularity Seminar, Tokyo, Japan, June 12, 2017.
- Tambara Summer School on Algebraic Geometry, Tambara, Japan, August 2, 2016.
- University of Tokyo AG Seminar, Tokyo, Japan, July 26, 2016.
- Nihon University Singularity Seminar, Tokyo, Japan, November 16, 2015.
- Waseda University AG Seminar, Tokyo, Japan, November 13, 2015.
- Tambara Summer School on Algebraic Geometry, Tambara, Japan, September 25, 2015.

SELECTED OTHER • Undergraduate Math Colloquium, UCLA, Los Angeles, CA, November 3, 2021.

• Graduate Student Math Colloquium, University of Illinois at Chicago, Chicago, IL, March 20, 2019.

Poster Presentations

TALKS

- Western Algebraic Geometry Symposium (WAGS), University of California, Riverside, Riverside, CA, November 5, 2022.
- Western Algebraic Geometry Symposium (WAGS), University of Pomona, online, November 14, 2020.
- Kinosaki Symposium on Algebraic Geometry, Kinosaki, Japan, October 21, 2015.
- AMS Summer Institute in Algebraic Geometry, University of Utah, Salt Lake City, UT, USA, July 16, 2015.

Teaching	University of California, Los Angeles (Instructor)									
Experience	Calculus of Several Variables (MATH 32A)	Spring	2023							
	Analysis II (MATH 131B, 2 sections)	Winter	2023							
	Calculus of Several Variables (MATH 32A)	Fall	2022							
	Introduction to Algebraic Geometry II (MATH 214B)	Spring	2022							
	Differential Geometry I (MATH 120A)	Winter	2022							
	Analysis I (MATH 131A)	Winter	2022							
	Linear Algebra and Applications (MATH 33A)	Fall	2021							
	Analysis I (MATH 131A, 2 sections)	Spring	2021							
	Calculus of Several Variables (MATH 32A)	Winter	2021							
	Linear Algebra and Applications (MATH 33A)	Fall	2020							
	University of Illinois at Chicago (Teaching Assistant)									
	Calculus III (MATH 210)	Fall	2019							
	Calculus I (MATH 180)	Fall	2018							
	Precalculus (MATH 121)	Fall	2017							
	Precalculus (MATH 121)	Fall	2016							
	University of Tokyo (Teaching Assistant)									
	Calculus	Spring	2016							
	Linear Algebra	Spring	2013							
Mentoring	University of California, Los Angeles									
Experience	Shend Zhjeqi, Research Experiences for Undergraduates (REU), Summer 202	21.							
Seminars and Workshops	• Workshop on Algebraic Cycles, Leibniz University Hannov September 30 - October 2, 2024.	er, Hannover, (Germany,							
Organized	• Research Learning Seminar on Tropical Degenerations and Stable Rationality, University of California, Los Angeles, Los Angeles, CA, USA, Fall 2020.									
	• Graduate Algebraic Geometry Seminar, University of Illinois at Chicago, Chicago, IL, USA, 2018-2020.									
	• Midwest Algebraic Geometry Graduate Conference, University of Illinois at Chicago, Chicago, IL, USA, May 2018.									
LANGUAGES	Japanese (native), English (fluent)									