

Fumiaki Suzuki

CONTACT INFORMATION UCLA Mathematics Department, Box 951555, Los Angeles, CA, 90095-1555
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EMPLOYMENT **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

AWARDS AND FELLOWSHIPS

- AMS-Simons Travel Grant, American Mathematical Society and Simons Foundation, 2021-2023
- Junior Fellowship in the program Moduli and Algebraic Cycles, Mittag-Leffler Institut, August - December 2021 (visit canceled due to the pandemic)
- Course Student of Leading Graduate Course for Frontiers of Mathematical Sciences and Physics (FMSP), University of Tokyo, 2013–2016

RESEARCH INTERESTS Algebraic geometry, especially, algebraic cycles, birational geometry, and Hodge theory.

PUBLICATIONS AND PREPRINTS

9. *Non-injectivity of the cycle class map in continuous ℓ -adic cohomology* (with F. Scavia), to appear in Forum Math. Sigma.
[arXiv:2208.06713](https://arxiv.org/abs/2208.06713)
8. *Non-algebraic geometrically trivial cohomology classes over finite fields* (with F. Scavia), submitted.
[arXiv:2206.12732](https://arxiv.org/abs/2206.12732)
7. *Higher-dimensional Calabi-Yau varieties with dense sets of rational points*, Eur. J. Math. **8** (2022), no. 1, 193–204.
[arXiv:2102.12966](https://arxiv.org/abs/2102.12966), DOI:10.1007/s40879-021-00506-4
6. *Factorization of the Abel-Jacobi maps*, Épijournal Géom. Algébrique **5** (2021), Art. 20, 9 pp.
[arXiv:2012.04802](https://arxiv.org/abs/2012.04802), DOI:10.46298/epiga.2021.6969
5. *An \mathcal{O} -acyclic variety of even index* (with J. C. Ottem and an appendix by O. Wittenberg), to appear in Math. Ann.
[arXiv:2010.06079](https://arxiv.org/abs/2010.06079)
4. *A pencil of Enriques surfaces with non-algebraic integral Hodge classes* (with J. C. Ottem), Math. Ann. **377** (2020), no. 1-2, 183–197.
[arXiv:1906.08994](https://arxiv.org/abs/1906.08994), DOI:10.1007/s00208-020-01969-8
3. *Birational superrigidity and K -stability of projectively normal Fano manifolds of index one*, Michigan Math. J. **70** (2021), no. 4, 779–792.
[arXiv:1810.07333](https://arxiv.org/abs/1810.07333), DOI:10.1307/mmj/1599789615
2. *A remark on a 3-fold constructed by Colliot-Thélène and Voisin*, Math. Res. Lett. **27** (2020), no. 1, 301–317.
[arXiv:1805.01067](https://arxiv.org/abs/1805.01067), DOI:10.4310/MRL.2020.v27.n1.a15

1. *Birational rigidity of complete intersections*, Math. Z. **285** (2017), no. 1-2, 479–492. [arXiv:1507.00285](https://arxiv.org/abs/1507.00285), DOI:10.1007/s00209-016-1717-7

INVITED TALKS

- Higher Dimensional Geometry, Simons Center for Geometry and Physics, Stony Brook, NY, USA, May 8-12, 2023.
- Purdue University AG Seminar, West Lafayette, IN, USA, March 22, 2023.
- FRAGMENT Seminar, University of Colorado Boulder, Boulder, CO, USA, January 19, 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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
TALKS

- 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

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

TEACHING
EXPERIENCE

University of California, Los Angeles (Instructor)

Analysis (MATH 131B), 2 sections	Winter	2023
Calculus of Several Variables (MATH 32A)	Fall	2022
Introduction to Algebraic Geometry (MATH 214B)	Spring	2022
Differential Geometry (MATH 120A)	Winter	2022
Analysis (MATH 131A)	Winter	2022
Linear Algebra and Applications (MATH 33A)	Fall	2021
Analysis (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
EXPERIENCE

University of California, Los Angeles

Shend Zhjeqi, Research Experiences for Undergraduates (REU), Summer 2021.

PROFESSIONAL
ACTIVITY

- Organizer, Research Learning Seminar on Tropical Degenerations and Stable Rationality, University of California, Los Angeles, Los Angeles, CA, USA, Fall 2020.
- Co-organizer, Graduate Algebraic Geometry Seminar, University of Illinois at Chicago, Chicago, IL, USA, 2018-2020.
- Co-organizer, Midwest Algebraic Geometry Graduate Conference, University of Illinois at Chicago, Chicago, IL, USA, May 2018.

LANGUAGES

Japanese (native), English (fluent)