

Sachi Hashimoto

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Employment

Max Planck Institute for Mathematics in the Sciences, Postdoc June 2022 - June 2023

Education

Boston University May 2022
PhD in Mathematics
Advisor: Jennifer Balakrishnan

University of Chicago June 2014
BA in Mathematics with General and Departmental Honors

Preprints and publications

7. “Geometric quadratic Chabauty and p -adic heights” (with Juanita Duque-Rosero and Pim Spelier), [arXiv:2207.10389](https://arxiv.org/abs/2207.10389).
6. “Quadratic Chabauty and p -adic Gross–Zagier”, [arXiv:2206.08595](https://arxiv.org/abs/2206.08595).
5. “A geometric linear Chabauty comparison theorem” (with Pim Spelier), *Acta Arithmetica*, 202 (2022), no. 1, 67–88. 11G30 (11D45).
4. “A transcendental Brauer–Manin obstruction to weak approximation on a Calabi–Yau threefold” (with Katrina Honigs, Alicia Lamarche, Isabel Vogt, and an appendix by Nicolas Addington), *Research in Number Theory* 8 (2022), no. 1, Paper No. 12.
3. “38406501359372282063949 and All That: Monodromy of Fano Problems” (with Borys Kadets), *International Mathematics Research Notices IMRN 2022*, no. 5, 3349–3370.
2. “Chabauty–Coleman computations on rank 1 Picard curves” (with Travis Morrison), *Arithmetic Geometry, Number Theory, and Computation*, Simons Symposia, Springer, 2021, 485–506.
1. “Computing rational points on rank 0 genus 3 hyperelliptic curves” (with María de Frutos-Fernández), *Arithmetic Geometry, Number Theory, and Computation*, Simons Symposia, Springer, 2021, 449–460.

Academic honors

NSF Graduate Research Fellowship, 2018 - 2022.

Clare Boothe Luce Fellowship (Henry Luce Foundation), 2017 - 2019.

Invited talks

April 2022: Combinatorics & Nonlinear Algebra Day, Brown.

February 2022: AGNT Seminar, Rice.

February 2022: Algebra seminar, Groningen.

April 2021: AMS Invited Talk, graduate student chapter, University of Connecticut, Storrs.

February 2021: Number theory seminar, University of Georgia.

February 2021: Algebra seminar, Brown.

November 2020: Algebraic geometry & number theory seminar, IST Austria.
 September 2020: Algebra seminar, Virginia Tech.
 September 2020: Monodromy and Galois groups in enumerative geometry and applications, ICERM.
 August 2020: POINT, New Developments in Number Theory, online.
 May 2020: Experimental Talks in Algebraic Geometry, online.
 September 2019: Algebra/Number theory seminar, Wesleyan.
 April 2019: AMS Graduate Student Conference in Algebraic Geometry and Number Theory, Brown.
 February 2019: BU Data Science Day, poster and lightning talk, Boston University.

Expository and outreach talks

April 2019: Women in Mathematics and Statistics Panelist, Harvard.
 May 2019: PROMYS Math Circles Field Day, Boston University.
 February 2018: PROMYS Math Circles Field Day, Boston University.

Teaching and outreach

PROMYS Math Circles Field Day mentor February 2022, November 2019
BU Directed Reading Program, co-director August 2018 - May 2022
Directed Reading Program Seed Funding Grant, DRP Network Fall 2018
Graduate Women in Science and Engineering, mentor 2017 - 2018
Proof School Spring Math Festival, director April 2017
Proof School Love Math! A festival for girls, co-director Fall 2016, 2017, 2018, 2019
Proof School Mathematics Teacher (secondary school) 2015 - 2017
Canada/USA Mathcamp, instructor Summer 2015, 2016

Conference and seminar service

Summer 2022: *ICM preparatory seminar*, Co-organizer, Max Planck Institute for Mathematics in the Sciences.
 Fall 2019: *Boston University Number Theory Expository Seminar*, Topic: Gross-Zagier, Organizer, Boston University.
 June 2019: *Mathematics Research Community: Explicit Methods in Arithmetic Geometry in Characteristic p* , Assistant, Whispering Pines, Rhode Island.
 May 2018: *Connecticut Number Theory School*, Graduate Assistant, University of Connecticut, Storrs.
 February 2018: *Graduate Workshop in Algebraic Geometry for Women and Mathematicians of Minority Genders*, Teaching Assistant for the course on explicit Coleman integration, MIT.