CONTACT INFORMATION

Department of Mathematics and Statistics
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Richmond, VA 23284

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APPOINTMENTS

Virginia Commonwealth University
Postdoctoral Fellow 08/2026–present

Princeton University
Instructor 06/2023–06/2026

Simons Laufer Mathematical Sciences Institute
Postdoctoral Member 01/2023–05/2023

Princeton University
Postdoctoral Research Associate 09/2022–01/2023

EDUCATION

Brown University, United States
Ph.D., Mathematics May 2022
Dissertation: *Uniform Mordell–Lang plus Bogomolov*
Advisor: Dan Abramovich

Peking University, China
B.S., Mathematics May 2016

RESEARCH INTERESTS

Algebraic geometry and number theory, with a particular focus on rational points, height theory, abelian varieties, unlikely intersections, and Hodge theory.

PUBLISHED PAPERS

(1) *Intersecting subvarieties of abelian schemes with group subschemes I.* Compositio Mathematica 162 (2026), no. 1, 231–275.

(2) (with Ziyang Gao and Lars Kühne) *The Uniform Mordell–Lang Conjecture.* Publications Mathématiques de l'IHÉS 143 (2026), 189–235.

(3) *Uniform Mordell–Lang plus Bogomolov.* International Mathematics Research Notices (2024), no. 9, 7360–7378.

(4) *Uniformity of quadratic points.* International Journal of Number Theory 20 (2024), no. 4, 1041–1071.

PREPRINTS

(1) (with Fabrizio Barroero, Laura Capuano, and Francesco Tropeano) *Degeneracy loci and unlikely intersections in abelian schemes.* arXiv:2610.06518.

(2) *Specialization of finitely generated subgroups in constant semiabelian schemes.* Draft available.

GRANT PROPOSALS

Rational Points, Heights, and Uniformity in Families October 2026
National Science Foundation. PI. Submitted.

Honors and Awards

Joukowsky Outstanding Dissertation Prize, Brown University	2022
Outstanding Talents of Mathematics, Peking University	2013–2016
Guanghua Educational Scholarship, Peking University	2014
First Prize, Chinese Mathematical Olympiad	2011

Invited Lectures

Topics on unlikely intersections, a series of four lectures — January 2025
East China Normal University, Shanghai

Invited Talks

Uniformity of quadratic points on algebraic curves — September 2026
Geometry seminar at VCU, Richmond

Bounded heights in the just likely loci on abelian schemes — July 2026
The fourth Journal of Number Theory Biennial Conference, Cetraro

Sparsity of intersections with group subschemes in an abelian scheme — November 2025
Algebra & Number Theory Seminar, University of Calgary

Sparsity of intersections with group subschemes in an abelian scheme — March 2025
Joint PU/IAS Number Theory Seminar, Princeton

Sparsity of intersections with group subschemes inside an abelian scheme — March 2025
Number Theory Seminar, UCLA, Los Angeles

A bounded height theorem on abelian schemes and specialization of Mordell–Weil groups — February 2025
Joint Columbia–CUNY–NYU Number Theory Seminar, New York

A bounded height result on families of abelian varieties and specialization — January 2025
Algebraic Seminar, East China Normal University, Shanghai

Height conjectures on abelian schemes — May 2024
Number Theory Seminar, MIT, Boston

Exceptional loci on abelian varieties — April 2024
Number Theory Seminar, University of Washington, Seattle

Some uniformity in Mordell–Lang problems — August 2023
Mini Alumni Conference, Peking University, Beijing

Uniformity in Mordell–Lang for higher dimensions — May 2023
Number Theory Seminar, University of Wisconsin, Madison

Recipes to merge finiteness results — April 2023
Diophantine Geometry Weekly Seminar, SLmath

Uniform Mordell–Lang plus Bogomolov — January 2023
Joint Mathematics Meetings, Boston

Uniform Mordell–Lang plus Bogomolov — September 2022
Unlikely Intersections Seminar, University of Illinois at Chicago

Uniformity in Mordell–Lang — February 2022
Number Theory Seminar, University of Georgia

Uniformity of quadratic points — December 2021
Algebra and Algebraic Geometry Seminars, Brown University

Uniformity of quadratic points, with a pretalk — September 2021
Berkeley Arithmetic Geometry and Number Theory Seminar, University of California, Berkeley

Uniformity of quadratic points — June 2021
HUJI–BGU Number Theory Seminar, The Hebrew University of Jerusalem and Ben-Gurion University of the Negev

Teaching at VCU

MATH 151 Precalculus, Instructor	Fall 2026

Teaching at Princeton

MAT 202 Linear Algebra with Applications, Instructor	Spring 2026
MAT 202 Linear Algebra with Applications, Instructor	Fall 2025
MAT 202 Linear Algebra with Applications, Instructor	Spring 2025
MAT 202 Linear Algebra with Applications, Instructor	Fall 2024
MAT 104 Calculus II, Instructor (co-course head)	Spring 2024
MAT 104 Calculus II, Instructor	Fall 2023
MAT 104 Calculus II, Preceptor	Fall 2022

Teaching at Brown

MATH 100 Single Variable Calculus, Part II (Online), Teaching Assistant	Summer 2021
MATH 200 Multivariable Calculus (Physics/Engineering), Lecturer	Fall 2019
MATH 100 Single Variable Calculus, Part II, Lecturer	Fall 2018
MATH 100 Single Variable Calculus, Part II, Teaching Assistant	Spring 2018
MATH 200 Multivariable Calculus (Physics/Engineering), Teaching Assistant	Fall 2017

Academic Service

Reviewer for zbMATH Open

Journal Referee:

- American Journal of Mathematics
- Advances in Mathematics
- Bulletin of the American Mathematical Society
- Bulletin of the London Mathematical Society
- Journal of Number Theory

Seminars Coorganized

Princeton Mathematics Colloquium	2023–2026