

Bryan Hu

CONTACT INFORMATION	University of California, San Diego Department of Mathematics 9500 Gilman Dr La Jolla, California 92093 USA	bryan-hu.github.io brhu@ucsd.edu
RESEARCH INTERESTS	Algebraic number theory, automorphic forms.	
EDUCATION	University of California, San Diego Ph.D. Candidate in Mathematics, expected June 2026	
	University of California, Los Angeles B.S. in Mathematics of Computation, 2016–2020 M.A. in Mathematics, 2018–2020	
PAPERS	1. Hu, B. “Exceptional Maass-Shimura Operators for $SU(2, 1)$ in G_2 ”, <i>preprint</i> (pdf) 2. Getz, J., Gutiérrez Terradillos, A., Hosseini Jafari, F., Hu, B., Lee, S., Slipper, A., Tomé, M., Yao, H., Zhao, A. “Modulation Groups”, <i>preprint</i> (arxiv) 3. Ariaz, R., Creech, S., Hu, B., Khunger, S., Kozioł, K., Rankothge, B., Zhang, B. “Iwasawa Algebras of pro- p Iwahori Subgroups”, <i>preprint</i> (arxiv) 4. Hu, B., Johnson-Leung, J., McGlade, F., Pollack, A., Roy, M. “Algebraicity of Eisenstein Series on Exceptional Groups and Deligne’s Conjecture for G_2 ”, <i>in preparation</i>	
CONFERENCE AND SEMINAR TALKS	2026 April TORA XV (invited talk) 2025 October University of Arizona Algebra and Number Theory Seminar (invited talk) 2025 October Southern California Number Theory Day (lightning talk) 2025 August Aarhus Automorphic Forms Conference (lightning talk) 2025 May UCSD Number Theory Seminar 2024 May UCSD Number Theory Seminar	
MENTORSHIP AND OUTREACH	2024 Fall UCSD AWM Mentorship Coordinator 2024 Summer UCSD AGANT Directed reading for undergrads (Algebraic Number Theory) 2024 Spring UCSD AGANT Directed reading for undergrads (Class Field Theory) 2023 Summer Mentor, Math Summer Program for High School Students 2023 Spring UCSD AGANT Directed reading for undergrads (Elliptic Curves) 2022 Spring UCSD AGANT Directed reading for undergrads (Quaternion Algebras) 2021–2022 UCSD Math Graduate Student Council Mentorship Committee 2021 Summer Teaching Assistant, Awesome Math Summer Program (Number Theory 2 and Abstract Algebra)	

	2021 Spring	UCSD AGANT Directed reading for undergrads (Elliptic Curves)
	2021 Spring	Teaching Assistant, Euler Circle (Complex Analysis)
	2020 Fall	Teaching Assistant, Euler Circle (Markov Chains)
	2017–2019	Assistant Instructor, Los Angeles Math Circle
TEACHING EXPERIENCE	2025 Fall	TA, Calculus III (Math 10C)
	2025 Spring	TA, Applied Complex Analysis (Math 120B)
	2025 Winter	TA, Discrete Mathematics and Graph Theory (Math 154)
	2024 Fall	Instructor, Linear Algebra (Math 18)
	2024 Spring	Tutor Training TA
	2024 Winter	Tutor Training TA
	2023 Fall	Lead TA, Calculus I (Math 10A)
	2023 Spring	TA, Intro to Stochastic Processes (Math 180B)
	2023 Winter	TA, Abstract Algebra II (Math 100B)
	2022 Fall	TA, Abstract Algebra I (Math 100A)
	2022 Spring	TA, Abstract Algebra III (Math 100C)
	2022 Winter	TA, Enumerative Combinatorics (Math 184)
	2021 Fall	TA, Calculus for Science and Engineering (Math 20A)
	2021 Summer	TA, Linear Algebra (Math 18)
	2021 Summer	TA, Vector Calculus (Math 20E)
	2021 Spring	TA, Enumerative Combinatorics (Math 184)
	2021 Winter	TA, Calculus II (Math 10B)
	2020 Fall	TA, Differential Equations (Math 20D)
HONORS AND AWARDS	2020–2025	James B. Ax Fellowship (UCSD)
	2020	Sherwood Prize (UCLA), For overall outstanding achievement and exceptional performance in mathematics at the undergraduate level
	2020	Departmental Scholar (UCLA), Most advanced program offered to mathematics majors; joint B.S. and M.A. degree completed in 4 years
	2020	Phi Beta Kappa
	2016–2020	Regents Scholarship (UCLA)
CONFERENCES AND WORKSHOPS	2025 August	Aarhus Automorphic Forms
	2025 March	Arizona Winter School (Representation Theory of p-adic Groups)
	2024 Sept	AIM SQuaREs Workshop (Quaternionic Modular Forms)
	2024 July	Rethinking Number Theory 5 (p-adic Iwasawa algebras)
	2023 May	CIRM Research School and Conference (Arithmetic Statistics)
	2022 July	APAW Graduate Instructional Workshop
	2022 March	Arizona Winter School (Automorphic Forms Beyond GL_2)
	2021 July	PCMI Graduate Summer School (Number Theory Informed by Computation)