education	Advisor: Wei Zhang	19-2024		
	1. Princeton University, B.A. Mathematics 201	15-2019		
research interests	I am interested in arithmetic aspects of the (relative) Langlands program, particularly in the role of Shimura varieties, and applications to the Beilinson–Bloch–Kato conjectures, Euler systems and Iwasawa theory.			
papers	5. First explicit reciprocity law for unitary Friedberg-Jacquet periods in preparation	unitary Friedberg-Jacquet periods 2023		
	4. Spherical functions on symmetric spaces of Friedberg-Jacquet type preprint, https://arxiv.org/abs/2311.00148	2023		
	Spherical functions of symmetric forms and a conjecture of Hironaka 202 preprint, https://arxiv.org/abs/2311.00147 On Howard's main conjecture and the Heegner point Kolyvagin system 201 Undergraduate senior thesis, preprint, https://arxiv.org/abs/1908.0919 A proof of Kolyvagin's conjecture via the BDP main conjecture 201 Undergraduate junior paper, preprint, https://arxiv.org/abs/1909.0783			
invited	3. TSIMF: upcoming Januar	January 2024		
talks		ar 2023		
	·	an 2020		
contributed	7. Introduction to compactifications of Shimura varieties Ap	pr 2023		
talks	1	ov 2022		
	•	ov 2022		
	4. Euler system of cyclotomic units Oc	ct 2022		
	3. Examples of Rapoport–Zink spaces Au	ıg 2021		
	2. Formulation of RZ data Au	ıg 2021		
	1. p-adic modular forms à la Katz Fe	eb 2020		
conferences	5. TSIMF Workshop on special values of L-functions Januar	ry 2024		
attended		ry 2024		
	aspects of automorphic forms			
	3. MSRI/SLMath Algebraic Cycles, L-Values, and Euler Systems Sprin	ng 2023		
		ly 2022		
		ar 2022		
	Study group on Automorphic Forms and the Theta Correspondence			
organizing	1. Learning seminar on Euler systems Fa	all 2022		
	https://math.mit.edu/~muriloz/seminar2022/			
	-			

academic awards	7. Frank and Brennie Morgan Prize (hon. mention), AMS/MAA/Awarded for outstanding research in mathematics by an undergonal standard control of the control o	
awaras	6. The Middleton Miller'29 prize	2018
	Awarded for the best independent work in mathematics	2010
	5. Peter A. Greenberg'77 Memorial Prize	2018
	Awarded for outstanding accomplishments in mathematics	
	4. Putnam examination	2016-2018
	N1 prize (6th-14th) in 2016 and 2018, Honorable mention in 20	17
	3. Shapiro prize for academic excellence	2017, 2018
	Award for outstanding academic achievement	
	2. The Class of 1861 prize	2017
	Awarded to the sophomore with the best record on the Putnam	1
	1. International mathematics olympiad	2014-2015
	Silver medals in 2014 and 2015	
mentorship	3. High School Enrichment Program Teacher	2021-Present
	Virtual classes with students from my former high school on	
	undergraduate-level topics in number theory	
	2. MIT Directed Reading Program	Winter 2020
	Analytic Number Theory	
	1. MIT Directed Reading Program	Winter 2020
	Modular Forms and Elliptic Curves	
teaching	8. 18.701 Algebra I	Fall 2023
	7. 18.950 Differential Geometry	Fall 2023
	6. 18.02 Multivariable Calculus	Fall 2022
	5. 18.065 Matrix Methods in Data Analysis & Machine Learning	Spring 2021
	4. 18.701 Algebra I	Fall 2021
	3. 18.700 Linear Algebra	Fall 2021
	2. 18.702 Algebra II	Spring 2020
	1. 18.100A Real Analysis	Fall 2020