education	2. Massachusetts Institute of Technology, PhD in Mathematics Advisor: Wei Zhang	2019-2024
	1. Princeton University, B.A. Mathematics	2015-2019
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	2023
	4. Spherical functions on symmetric spaces of Friedberg-Jacquet type preprint	2023
	3. Spherical functions of symmetric forms and a conjecture of Hirona preprint	ka 2023
	 On Howard's main conjecture and the Heegner point Kolyvagin sy Undergraduate senior thesis, preprint, https://arxiv.org/abs/1 A proof of Kolyvagin's conjecture via the BDP main conjecture Undergraduate junior paper, preprint, https://arxiv.org/abs/1 	908.09197 2019
invited talks	 MSRI/SLMath: Arithmetic level raising and reciprocity laws JMM: On Howard's MC and the Heegner point Kolyvagin system 	Mar 2023 Jan 2020
contributed talks	 Introduction to compactifications of Shimura varieties Iwasawa theory of elliptic curves Introduction to Iwasawa theory Euler system of cyclotomic units Examples of Rapoport-Zink spaces Formulation of RZ data 	Apr 2023 Nov 2022 Nov 2022 Oct 2022 Aug 2021 Aug 2021
	1. p-adic modular forms à la Katz	Feb 2020
conferences attended	4. AIM Workshop on analytic, arithmetic, and geometric Janaspects of automorphic forms	nuary 2024
	•	July 2023 July 2022 Mar 2022
organizing	1. Learning seminar on Euler systems https://math.mit.edu/~muriloz/seminar2022/	Fall 2022

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 2017		
	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	