employment	1. Johns Hopkins University, J.J. Sylvester Assistant Professor	2024-2027		
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			
	4. Spherical functions on symmetric spaces of Friedberg-Jacquet type preprint, https://arxiv.org/abs/2311.00148			
	3. Spherical functions of symmetric forms and a conjecture of Hiro preprint, https://arxiv.org/abs/2311.00147	naka 2023		
	2. On Howard's main conjecture and the Heegner point Kolyvagin system Undergraduate senior thesis, preprint, https://arxiv.org/abs/1908.0			
	1. A proof of Kolyvagin's conjecture via the BDP main conjecture Undergraduate junior paper, preprint, https://arxiv.org/abs	2019		
invited	7. Duke: 1st reciprocity law for unitary FJ periods	October 2024		
$\operatorname{talks}$		October 2024		
	- v -	February 2024		
	,	February 2024		
		January 2024 Mar 2023		
	<ol> <li>MSRI/SLMath: Arithmetic level raising and reciprocity laws Mar 2023</li> <li>JMM: On Howard's MC and the Heegner point Kolyvagin system Jan 2020</li> </ol>			
conferences	7. ICTS-TIFR Automorphic Forms and the Bloch-Kato Conjectu	re May 2025		
attended	6. Arizona Winter School	Mar 2024		
	5. TSIMF Workshop on special values of L-functions	January 2024		
	4. AIM Workshop on analytic, arithmetic, and geometric aspects of automorphic forms	January 2024		
	3. MSRI/SLMath Algebraic Cycles, L-Values, and Euler Systems	Spring 2023		
	2. IHES Summer School on the Langlands program	July 2022		
	1. Arizona Winter School	Mar 2022		

contributed talks	<ol> <li>Introduction to compactifications of Shimura varieties</li> <li>Iwasawa theory of elliptic curves</li> <li>Introduction to Iwasawa theory</li> <li>Euler system of cyclotomic units</li> <li>Examples of Rapoport–Zink spaces</li> <li>Formulation of RZ data</li> <li>p-adic modular forms à la Katz</li> </ol>	Apr 2023 Nov 2022 Nov 2022 Oct 2022 Aug 2021 Aug 2021 Feb 2020
organizing	<ol> <li>Number theory learning seminar         Co-organizer</li> <li>Learning seminar on Euler systems         https://math.mit.edu/~muriloz/seminar2022/     </li> </ol>	Fall 2024 Fall 2022
academic awards	<ol> <li>Frank and Brennie Morgan Prize (hon. mention), AMS/MAA/Awarded for outstanding research in mathematics by an undergonous formula of the Middleton Miller '29 prize         Awarded for the best independent work in mathematics         Peter A. Greenberg '77 Memorial Prize         Awarded for outstanding accomplishments in mathematics         Putnam examination         N1 prize (6th-14th) in 2016 and 2018, Honorable mention in 20         Shapiro prize for academic excellence         Award for outstanding academic achievement         The Class of 1861 prize         Awarded to the sophomore with the best record on the Putnam         International mathematics olympiad         Silver medals in 2014 and 2015</li> </ol>	2018 2018 2018 2016-2018 17 2017, 2018 2017
mentorship	<ol> <li>High School Enrichment Program Teacher         Virtual classes with students from my former high school on         undergraduate-level topics in number theory</li> <li>MIT Directed Reading Program         Mentored 2 undergraduates on analytic number theory</li> <li>MIT Directed Reading Program         Mentored 3 undergraduates on modular forms and elliptic curve</li> </ol>	2021-Present Winter 2020 Winter 2020 es
teaching	<ol> <li>9. 110.617 Number Theory I Teaching assistant at MIT:</li> <li>8. 18.701 Algebra I</li> <li>7. 18.950 Differential Geometry</li> <li>6. 18.02 Multivariable Calculus</li> <li>5. 18.065 Matrix Methods in Data Analysis &amp; Machine Learning</li> <li>4. 18.701 Algebra I</li> <li>3. 18.700 Linear Algebra</li> <li>2. 18.702 Algebra II</li> <li>1. 18.100A Real Analysis</li> </ol>	Fall 2024  Fall 2023  Fall 2022  Spring 2021  Fall 2021  Fall 2021  Spring 2020  Fall 2020