

Si Ying Lee

CONTACT INFORMATION	Stanford University 450 Jane Stanford Way Building 380 Stanford, California 94305	leesy1@stanford.edu
WEBSITE	https://siyinglee.github.io	
RESEARCH INTERESTS	My research interests lie in the fields of number theory and algebraic geometry, with a particular focus on the geometry and cohomology of Shimura varieties, and applications to the Langlands program.	
EMPLOYMENT	Stanford University Szegö Assistant Professor	2023 - present
	Max Planck Institut für Mathematik Postdoctoral Fellow	2022 - 2023
EDUCATION	Harvard University Ph.D. in Mathematics <ul style="list-style-type: none">• Thesis: Eichler-Shimura relations• Advisor: Mark Kisin	2017 - 2022
	National University of Singapore Bachelor of Science (Honours) in Mathematics <ul style="list-style-type: none">• Honours with Highest Distinction	2013 - 2017
PREPRINTS & PUBLICATIONS	Si Ying, Lee & Keerthi Madapusi. <i>p-isogenies with G-structure</i> , in preparation	
	Si Ying, Lee. <i>Unramifiedness of weight 1 Galois representations associated to Hilbert modular varieties</i> , available on author's website	
	Thomas L. Browning, Pavel Čoupek, Ellen Eischen, Claire Frechette, Serin Hong, Si Ying Lee & David Marcil. <i>Constructing vector-valued automorphic forms on unitary groups</i> , https://arxiv.org/abs/2408.05198	
	Linus, Hamann & Si Ying, Lee. <i>Torsion vanishing for some Shimura varieties</i> , https://arxiv.org/abs/2309.08705	
	Si Ying, Lee. <i>Semisimplicity of étale cohomology of certain Shimura varieties</i> , http://arxiv.org/abs/2206.07283	
	Si Ying, Lee. <i>Eichler-Shimura relations for Shimura varieties of Hodge type</i> , http://arxiv.org/abs/2006.11745	
	Heng Huat, Chan & Si Ying, Lee. <i>Congruences associated with the modular j-invariant</i> , INTEGERS (2017)	

AWARDS AND SCHOLARSHIPS	2019	Raphael and Daniel Salem Fellowship	
	2017	Medal of Excellence in Mathematics	
	2017	Lijen Industrial Development Medal	
	2017	Special Programme in Mathematics Prize	
	2016	Tan Teck Chwee Prize	
	2015	Lim Soo Peng Prize	
	2013–2017	Kent Ridge Undergraduate Merit Scholarship	
INVITED TALKS	Oct 2024	Clay Research Workshop	
	Aug 2024	BICMR Number theory Seminar	
	July 2024	Oberwolfach Arithmetic Geometry Workshop	
	July 2024	ICMS Workshop, Families of p -adic automorphic forms	
	March 2024	Johns Hopkins Number Theory Seminar	
	March 2024	Simons Annual Collaboration Meeting	
	Feb 2024	Berkeley Number Theory Seminar	
	Nov 2023	Stanford Number Theory Seminar	
	Aug 2023	Hausdorff Trimester Global Langlands Conference	
	Mar 2023	Universite Lille Number Theory Seminar	
	Mar 2023	MSRI Shimura Varieties and L -functions	
	Feb 2023	Oberwolfach Arithmetic of Shimura Varieties Workshop	
	Jan 2023	MSRI Connections Workshop	
	Oct 2022	MPIM Arbeitsgemeinschaft Arithmetische Geometrie (2 talks)	
	Oct 2022	London Number Theory Seminar	
	Feb 2022	Boston College Number Theory Seminar	
	Jan 2022	Stanford Number Theory Seminar	
	Jan 2022	National University of Singapore Number Theory and Representation Theory Seminar	
	Dec 2021	Johns Hopkins Junior Number Theory Days 2021	
	Oct 2021	Berkeley Number Theory Seminar	
Nov 2020	Harvard Number Theory Seminar		
Nov 2020	University of Wisconsin - Madison Number Theory Seminar		
Sep 2020	University of Maryland - College Park Number Theory Seminar		
TEACHING EXPERIENCE	Stanford:		
	Fall	2024	Instructor, Math 21 (Calculus III) (2 lecture groups, 200 students)
	Spring	2024	Instructor, Math 216C (Introductory Algebraic Geometry III)
	Fall	2023	Instructor, Math 20 (Calculus II) (2 lecture groups, 130 students, Sole instructor)
	Harvard:		
	Fall	2021	Teaching Fellow, Math 22a (Vector Calculus and Linear Algebra I)
	Fall	2020	Teaching Fellow, Math 22a (Vector Calculus and Linear Algebra I) Awarded the Certificate for Distinction in Teaching
	Fall	2019	Teaching Fellow, Math 23a (Linear Algebra and Real Analysis I) Awarded the Certificate for Distinction in Teaching
	Fall	2018	Teaching Fellow, Math 21a (Multivariable Calculus)
	SERVICE	Organizer, BIRS-IASM New Tools in the Local and Global Langlands Programs 2025	
Organizer, Noetherian Ring, Stanford Mathematics Department			
Teaching Assistant, IAS Women+ and Mathematics 2024			
SEMINARS ORGANIZED	Learning seminar on Uniform Mordell <i>Fall 2021</i>		

CITIZENSHIP Singapore

LANGUAGES English
 Chinese