Tongtong Liang

Curriculum Vitae

UCSD La Jolla US □ +1 858-644-9137 ☑ ttliang@ucsd.edu

Research Interests

Algebraic topology and algebraic geometry, especially motivic homotopy theory and algebraic K-theory.

Homepage

tongtongliang.github.io

Education

2023-present University of California, San Diego, PhD in Mathematics, Advisor: Zhouli Xu

2021–2023 **Southern University of Science and Technology, China**, *Master in Mathematics* (expected June, 2023), Advisor: Yifei Zhu

2017–2021 **Southern University of Science and Technology, China**, Bachelor in Mathematics with Honors

2014–2017 Shenzhen Middle School, China, Experimental Curriculum

Seminar Organizing

2021–2023 Graduate topology seminar

2020 Online seminar on higher categories

2019 Seminar on geometry and topology

Presentations

2023	Motivic homotopy and cohomology theory	Seminar in topology, UCSD
2022	Quillen's theorem on formal group laws	Graduate topology seminar
2022	Methods of homotopy theory in algebraic geome	try Graduate topology seminar
2021	From model categories to ∞ -categories	Seminar on model categories
2021	All concepts are Kan extensions	Seminar on model categories
2021	Homotopy coherence problem and ∞ -categories	Graduate topology seminar
2021	Introduction to spectral sequences	Graduate topology seminar
2021	Introduction to Steenrod operations	Graduate topology seminar
2021	On the Grothendieck-Riemann-Roch theorem	Seminar on algebraic number theory
2020	An introduction to higher categories	Online seminar on higher categories
2019	Introduction to schemes	Seminar on geometry and topology

	Introduction to ringed spaces	Seminar on geometry and	
2018	Introduction to categories and sheaves	Seminar on geometry and	l topology
	Summer School Participation 2023 Summer School on Operads, spectra and Multiplicative structures BIMSA 2022 Summer School on Chromatic Homotopy Theory and Higher (Infinity-Categorical) Algel BIMSA(online)		
2023			
2022			
2021	Summer School on Equivariant Homotopy Theory Fudan University(online)		
2020	 Motivic, Equivariant and Non-commutative Homotopy Theory IHES(online) Algebra and Number Theory Chinese Academy of Sciences 		
2019			
	Academic Awards		
Jan. 2022	Outstanding Teaching Assistant Award		
	Jun. 2021 Outstanding Undergraduate Thesis Award		
	Teaching		
Fall 2023	Teaching assistant for MATH20E (Vector Calculated)	ulus)	UCSD
Fall 2021	Teaching assistant for MA213-16 (Mathematic	al Analysis)	SUSTech
Spring 2021	Grader for MAT8021 (Algebraic Topology)		SUSTech
	Language		
	Chinese(native)		
	English(TOEFL iBT Best Scores: Reading 29, Listening 28, Speaking 25, Writing 24)		
	Outreach		
2021–2023	Barista	Camerata Coffee Community,	SUSTech
2021–2022	Student tutor	Learning Center,	SUSTech
2020–2022	Sports rehabilitator	Combat club,	SUSTech