

Jiantong Liu*

CONTACT INFORMATION	<ul style="list-style-type: none">◇ Phone: (424)440-9698◇ Email: jl106@illinois.edu◇ Website: jiantongliu.github.io	273 Altgeld Hall Department of Mathematics University of Illinois Urbana-Champaign Urbana, IL 61801
RESEARCH INTEREST	Algebraic K-theory and its applications in motivic homotopy theory.	
EDUCATION	University of Illinois Urbana-Champaign (UIUC) Ph.D., Mathematics	<i>Aug 2023 - Present</i>
	University of California, Los Angeles (UCLA) B.S., Mathematics, with Departmental Highest Honors B.S., Cognitive Science, with Specialization in Computing	<i>Sept 2019 - Jun 2023</i>
PUBLICATIONS	◇ <i>Bounds in Simple Hexagonal Lattice and Classification of 11-stick Knots.</i> (With Y. Bao, A. Benveniste, M. Campisi, N. Cazet, A. Goh, E. Sherman.) <i>J. Knot Theory Ramif.</i> (2023), Vol. 32, No. 14, 2350097.	
SELECTED TALKS	External <ul style="list-style-type: none">◇ <i>Bounds in Simple Hexagonal Lattice and Classification of 11-stick Knots.</i> AMS Special Session at Joint Mathematics Meeting, January 2023, Boston, MA. Internal <ul style="list-style-type: none">◇ <i>Descent of Algebraic K-theory.</i> UIUC Graduate Student Homotopy Theory Seminar, April 2025.◇ <i>Reinterpreting Universal Localizing Invariant.</i> UIUC Motivic Homotopy Theory Literature Seminar, April 2025.◇ <i>Categorifying Spectra.</i> UIUC Motivic Homotopy Theory Literature Seminar, October 2024.◇ <i>A Tropical Proof of the Brill-Noether Theorem.</i> UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2024.◇ <i>How to Overcomplicate the Brill-Noether Theorem.</i> UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2024.◇ <i>Equivariant Cohomology.</i> UIUC Equivariant Homotopy Theory Learning Seminar, February 2024.◇ <i>Triangulated Category's Christmas Wish List.</i> UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2023.◇ <i>Enriched Categories and Applications.</i> UCLA Directed Reading Program Colloquium, March 2022.	
AWARDS	UCLA Latin Honors, Magna cum laude	<i>Jun 2023</i>
	UCLA Departmental Highest Honors in Mathematics	<i>Jun 2023</i>
TEACHING	At UIUC Teaching Assistant <ul style="list-style-type: none">◇ MATH 227, <i>Linear Algebra for Data Science.</i>◇ MATH 257, <i>Linear Algebra with Computational Applications.</i> (×2)◇ MATH 444, <i>Elementary Real Analysis.</i>	<i>Aug 2023 - Present</i>

*Last updated April 2025.

	Course Grader ◇ MATH 241, <i>Calculus III</i> .	
	At UCLA Course Grader ◇ MATH 115AH, <i>Upper Division Linear Algebra (Honors)</i> . (×5) ◇ MATH 115A, <i>Upper Division Linear Algebra</i> . (×2) ◇ MATH 105, <i>Mathematics and Pedagogy for Teaching Secondary Mathematics</i> . (×3)	Sept 2020 - Sept 2022
OUTREACH & SERVICE	Illinois Mathematics Lab Graduate Team Leader	Aug 2024 - Present
	UIUC Math Circle Instructor	Aug 2024 - Dec 2024
	UIUC Graduate Affairs Committee Graduate Student Member	Aug 2023 - May 2024
	UCLA Olga Radko Endowed Math Circle Assistant Instructor for Intermediate-level Group	Sept 2021 - Jun 2023
RECENTLY- ATTENDED CONFERENCES & WORKSHOPS	Interactions between C^* -algebraic KK-theory and Homotopy Theory, Remote.	Jan 2025
	Life after the Telescope Conjecture, Berkeley, CA.	Dec 2024
	Midwest Topology Seminar, Chicago, IL.	Nov 2024
	Workshop on Tevelev Degrees and Related Topics, Champaign, IL.	Oct 2024