

Jiantong Liu*

CONTACT INFORMATION	◇ Phone: (424)440-9698	273 Altgeld Hall
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RESEARCH INTEREST Algebraic K-theory and its applications in motivic homotopy theory.

EDUCATION	University of Illinois Urbana-Champaign (UIUC)	<i>Aug 2023 - Present</i>
	Ph.D., Mathematics	

	University of California, Los Angeles (UCLA)	<i>Sept 2019 - Jun 2023</i>
	B.S., Mathematics, with Departmental Highest Honors	
	B.S., Cognitive Science, with Specialization in Computing	

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.
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SELECTED TALKS	External
	◇ <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

- ◇ *Categorifying Spectra.* UIUC Motivic and K-theory Literature Seminar, October 2024.
- ◇ *A Tropical Proof of the Brill-Noether Theorem.* UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2024.
- ◇ *How to Overcomplicate the Brill-Noether Theorem.* UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2024.
- ◇ *Equivariant Cohomology.* UIUC Equivariant Homotopy Theory Learning Seminar, February 2024.
- ◇ *Triangulated Category's Christmas Wish List.* UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2023.
- ◇ *Enriched Categories and Applications.* UCLA Directed Reading Program Colloquium, March 2022.

AWARDS	UCLA Latin Honors, Magna cum laude	<i>Jun 2023</i>
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	UCLA Departmental Highest Honors in Mathematics	<i>Jun 2023</i>
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TEACHING	At UIUC	<i>Aug 2023 - Present</i>
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Teaching Assistant

- ◇ MATH 227, *Linear Algebra for Data Science.*
- ◇ MATH 257, *Linear Algebra with Computational Applications.* (×2)
- ◇ MATH 444, *Elementary Real Analysis.*

Course Grader

- ◇ MATH 241, *Calculus III.*

	At UCLA	<i>Sept 2020 - Sept 2022</i>
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*Last updated January 2025.

	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)	
OUTREACH & SERVICE	Illinois Mathematics Lab Graduate Team Leader	<i>Aug 2024 - Present</i>
	UIUC Math Circle Instructor	<i>Aug 2024 - Dec 2024</i>
	UIUC Graduate Affairs Committee Graduate Student Member	<i>Aug 2023 - May 2024</i>
	UCLA Olga Radko Endowed Math Circle Assistant Instructor for Intermediate-level Group	<i>Sept 2021 - Jun 2023</i>
	Organization for Transformative Works (OTW) Volunteer and Staff	<i>Oct 2018 - Present</i>
RECENTLY- ATTENDED	Interactions between C^* -algebraic KK-theory and Homotopy Theory, Remote.	<i>Jan 2025</i>
CONFERENCES & WORKSHOPS	Life after the Telescope Conjecture, Berkeley, CA.	<i>Dec 2024</i>
	Midwest Topology Seminar, Chicago, IL.	<i>Nov 2024</i>
	Workshop on Tevelev Degrees and Related Topics, Champaign, IL.	<i>Oct 2024</i>