

Jiantong Liu*

CONTACT INFORMATION	◇ 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
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RESEARCH INTEREST	Algebraic Geometry, Algebraic K-theory, Homotopy Theory.
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EDUCATION	University of Illinois Urbana-Champaign (UIUC) Ph.D., Mathematics	<i>Aug 2023 - Present</i>
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	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>
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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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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 ◇ <i>A Tropical Proof of Brill-Noether Non-existence Theorem.</i> UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, October 2024. ◇ <i>A Tropical Interpretation of the Brill-Noether Theorem.</i> UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2024. ◇ <i>Étale Cohomology.</i> UIUC Étale Cohomology Learning Seminar, June 2024. ◇ <i>Descent Theory.</i> UIUC Étale Cohomology Learning Seminar, May 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.
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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 ◇ MATH 257, <i>Linear Algebra with Computational Applications.</i> (×2) ◇ MATH 444, <i>Elementary Real Analysis.</i> Course Grader ◇ MATH 241, <i>Calculus III.</i>	<i>Aug 2023 - Present</i>
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	At UCLA	<i>Sept 2020 - Sept 2022</i>
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*Last updated August 2024.

	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)	
	At UCLA Olga Radko Endowed Math Circle	<i>Sept 2021 - Jun 2023</i>
	Assistant Instructor for Intermediate Level	
OUTREACH & SERVICE	Illinois Mathematics Lab	<i>Aug 2024 - Present</i>
	Graduate Student Mentor	
	UIUC Graduate Affairs Committee	<i>Aug 2023 - Jun 2024</i>
	Graduate Student Member	
	Organization for Transformative Works (OTW)	<i>Oct 2018 - Present</i>
	Volunteer, Staff	
CONFERENCES & WORKSHOPS ATTENDED	Life after the Telescope Conjecture, Berkeley, CA.	<i>Dec 2024</i>
	Motivic Homotopy, K-theory, and Modular Representations, Los Angeles, CA. <i>a celebration of the mathematics of Eric Friedlander on the occasion of his 80th birthday.</i>	<i>Aug 2024</i>
	SLMath Summer School on Algebraic Curves, Berkeley, CA.	<i>Jul 2024</i>
	Algebraic Geometry Northeastern Series, Boston, MA.	<i>Mar 2024</i>
	Symmetric Tensor Categories and Representation Theory, Los Angeles, CA.	<i>Jan 2024</i>
	Western Algebraic Geometry Symposium, St. Louis, MO.	<i>Nov 2023</i>
	Midwest Topology Seminar, Champaign, IL.	<i>Sept 2023 - Oct 2023</i>
	Joint Mathematics Meeting, Boston, MA.	<i>Jan 2023</i>
	HoTTEST Summer School, Virtual.	<i>Jul 2022 - Aug 2022</i>
SKILLS	Programming Languages: R, Python, Java, C++	
	Other Mathematical Tools: MATLAB, Lean, Agda	
	General Tools: WordPress, L ^A T _E X	
	Language: Chinese (native), English (fluent)	