

Jiantong Liu*

CONTACT INFORMATION	◇ Phone: (424)440-9698	110 Altgeld Hall
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RESEARCH INTEREST	Algebraic Geometry, Algebraic K -theory, Category Theory, 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 Highest Departmental Honors	
	B.S., Cognitive Science, with Specialization in Computing	
PREPRINTS	◇ Y. Bao, A. Benveniste, M. Campisi, N. Cazet, A. Goh, J. Liu, E. Sherman, <i>Bounds in Simple Hexagonal Lattice and Classification of 11-stick Knots</i> , November 2022. Submitted.	
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, Massachusetts.	
	Internal	
	◇ <i>Quillen and Suslin's K-theory</i> . (4 parts) UIUC Algebraic K -theory Reading Seminar, October & November 2023.	
	Topics: (1) Brauer lift, (2) Quillen's detection theorem, (3) Quillen's localization theorem and dévissage theorem, (4) Suslin's K -theory over algebraically closed fields.	
	◇ <i>Triangulated Category's Christmas Wish List</i> . UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2023.	
AWARDS	UCLA Latin Honors, Magna cum laude	<i>Jun 2023</i>
	UCLA Highest Departmental Honors in Mathematics	<i>Jun 2023</i>
RESEARCH EXPERIENCE	Undergraduate Researcher at Polymath Jr	<i>Jun 2022 - Jan 2023</i>
	Topic: On combinatorial knot theory, in particular on stick knots.	
	Supervisors: Professor Marion Campisi, Nicholas Cazet	
	Undergraduate Researcher at UCLA CAM REU	<i>Jun 2021 - Aug 2021</i>
	Topic: On compartmental modeling, in particular on SEIR models.	
	Supervisors: Professor Andrea Bertozzi, Professor Paul Brantingham, Professor David Hyde, Professor Chuntian Wang, Yotam Yaniv	
	Lab Research Assistant at UCLA Psychology Department	<i>Mar 2022 - Mar 2023</i>
	Topic: On object recognition and motion perception.	
	Supervisors: Professor Zili Liu, Yang Xing, Maggie Yeh	

*Last updated November 25, 2023.

TEACHING	At UIUC	
	◊ Course Grader	<i>Aug 2023 - Present</i>
	241 Calculus III	
	At UCLA	
	◊ Course Grader	<i>Sept 2020 - Sept 2022</i>
	115AH Honors Linear Algebra	
	115A Linear Algebra	
	105ABC Mathematics for Teaching	
	◊ Assistant Instructor at UCLA Math Circle	<i>Sept 2021 - Jun 2023</i>
SERVICES	UIUC Graduate Affairs Committee	<i>Aug 2023 - May 2024</i>
	Organization for Transformative Works (OTW)	<i>Oct 2018 - Present</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)	