

Jiantong Liu*

CONTACT INFORMATION	<ul style="list-style-type: none">◇ Phone: (424)440-9698◇ Email: jl106@illinois.edu◇ Website: jiantongliu.github.io	110 Altgeld Hall Department of Mathematics University of Illinois Urbana-Champaign Urbana, IL 61801
RESEARCH INTEREST	Algebraic Geometry, Algebraic Topology, Category Theory, 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 Highest Departmental Honors B.S., Cognitive Science, with Specialization in Computing	<i>Sep 2019 - Jun 2023</i>
PUBLICATION	Preprint[†] <ul style="list-style-type: none">◇ Y. Bao, A. Benveniste, M. Campisi, N. Cazet, A. Goh, J. Liu, E. Sherman, “Bounds in Simple Hexagonal Lattice and Classification of 11-stick Knots”, November 2022. https://doi.org/10.48550/arXiv.2211.00687. Submitted.	
TALK	◇ <i>Bounds in Simple Hexagonal Lattice and Classification of 11-stick Knots</i> . AMS Special Session at Joint Mathematics Meeting, January 2023, Boston, Massachusetts. [Abstract]	
RESEARCH	Undergraduate Researcher at Polymath Jr Topic: On combinatorial knot theory, in particular on stick knots. Supervisors: Professor Marion Campisi, Nicholas Cazet	<i>Jun 2022 - Jan 2023</i>
	Undergraduate Researcher at UCLA CAM REU Topic: On compartmental modeling, in particular on SEIR models. Supervisors: Professor Andrea Bertozzi, Professor Paul Brantingham, Professor David Hyde, Professor Chuntian Wang, Yotam Yaniv	<i>Jun 2021 - Aug 2021</i>
	Lab Research Assistant at UCLA Psychology Department Topic: On object recognition and motion perception. Supervisors: Professor Zili Liu, Mac Xing	<i>Mar 2022 - Jun 2023</i>
TEACHING	At UIUC <ul style="list-style-type: none">◇ Course Grader 241 Calculus III	<i>Aug 2023 - Present</i>
	At UCLA <ul style="list-style-type: none">◇ Course Grader 115AH Honors Linear Algebra 115A Linear Algebra 105ABC Mathematics for Teaching◇ Assistant Instructor at UCLA Math Circle	<i>Sep 2020 - Sep 2022</i> <i>Sep 2021 - Jun 2023</i>

*Last updated August 19, 2023.

[†]Authors are listed in alphabetical order. The corresponding authors' names are **in bold**.

AWARDS	Latin Honors, Magna cum laude	<i>Jun 2023</i>
	Highest Departmental Honors in Mathematics	<i>Jun 2023</i>
SEMINARS	UCLA Algebra Seminar	
	\diamond ∞ -Category Theory	<i>Mar 2023 - Jun 2023</i>
	Faculty: Professor Paul Balmer	
	Text: Riehl & Verity, <i>Elements of ∞-Category Theory</i>	
	\diamond Reductive Algebraic Groups	<i>Jan 2023 - Mar 2023</i>
	Faculty: Professor Alexander Merkurjev	
	Text: Knus et al., <i>The Book of Involutions</i>	
	The HOTTest Summer School	<i>Jul 2022 - Aug 2022</i>
SERVICE	UIUC Graduate Affairs Committee	<i>Aug 2023 - May 2024</i>
	Organization for Transformative Works (OTW)	<i>Oct 2018 - Present</i>
SKILL	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)	