

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 K -theory, 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>Sept 2019 - Jun 2023</i>
PUBLICATIONS	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.	
TALKS	<ul style="list-style-type: none">◇ <i>Triangulated Category’s Christmas Wish List</i>. UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2023, Champaign, Illinois.◇ <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]	
AWARDS	UCLA Latin Honors, Magna cum laude	<i>Jun 2023</i>
	UCLA Highest Departmental Honors in Mathematics	<i>Jun 2023</i>
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, Yang Xing, Maggie Yeh	<i>Mar 2022 - Mar 2023</i>
TEACHING	At UIUC <ul style="list-style-type: none">◇ Course Grader 241 Calculus III	<i>Aug 2023 - Present</i>
	At UCLA	

*Last updated November 8, 2023.

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

	<ul style="list-style-type: none"> ◇ Course Grader <i>Sept 2020 - Sept 2022</i> <li style="padding-left: 20px;">115AH Honors Linear Algebra <li style="padding-left: 20px;">115A Linear Algebra <li style="padding-left: 20px;">105ABC Mathematics for Teaching ◇ Assistant Instructor at UCLA Math Circle <i>Sept 2021 - Jun 2023</i>
SERVICES	<div>UIUC Graduate Affairs Committee <i>Aug 2023 - May 2024</i></div> <div>Organization for Transformative Works (OTW) <i>Oct 2018 - Present</i></div>
SKILLS	<div>Programming Languages: R, Python, Java, C++</div> <div>Other Mathematical Tools: MATLAB, Lean, Agda</div> <div>General Tools: WordPress, L^AT_EX</div> <div>Language: Chinese (native), English (fluent)</div>