

# Jiantong Liu\*

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

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\*Last updated September 9, 2023.

<sup>†</sup>Authors are listed in alphabetical order. The corresponding authors’ names are in **bold**.

	<b>105ABC</b> Mathematics for Teaching	
	◊ Assistant Instructor at UCLA Math Circle	<i>Sep 2021 - Jun 2023</i>
AWARDS	Latin Honors, Magna cum laude	<i>Jun 2023</i>
	Highest Departmental Honors in Mathematics	<i>Jun 2023</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 <sup>A</sup> T <sub>E</sub> X	
	Language: Chinese (native), English (fluent)	