Jiantong Liu*

CONTACT INFORMATION	⋄ 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) *Aug 2023 - Present*
Ph.D., Mathematics

University of California, Los Angeles (UCLA) *Sept 2019 - Jun 2023*
B.S., Mathematics, with Highest Departmental Honors

B.S., Cognitive Science, with Specialization in Computing

PUBLICATION

Preprint[†]
⋄ 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

⋄ *Triangulated Category's Christmas Wish List.* UIUC Graduate Algebraic Geometry and Commutative Algebra Seminar, September 2023, Champaign, Illinois.
⋄ *Bounds in Simple Hexagonal Lattice and Classification of 11-stick Knots.* AMS Special Session at Joint Mathematics Meeting, January 2023, Boston, Massachusetts. [Abstract]

RESEARCH

Undergraduate Researcher at Polymath Jr *Jun 2022 - Jan 2023*
Topic: On combinatorial knot theory, in particular on stick knots.

Supervisors: Professor Marion Campisi, Nicholas Cazet

Undergraduate Researcher at UCLA CAM REU *Jun 2021 - Aug 2021*
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 *Mar 2022 - Mar 2023*
Topic: On object recognition and motion perception.

Supervisors: Professor Zili Liu, Yang Xing, Maggie Yeh

TEACHING

At UIUC
⋄ Course Grader *Aug 2023 - Present*

   241 Calculus III

At UCLA
⋄ Course Grader *Sept 2020 - Sept 2022*

   115AH Honors Linear Algebra

   115A Linear Algebra

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*Last updated September 9, 2023.
[†]Authors are listed in alphabetical order. The corresponding authors' names are **in bold**.

105ABC Mathematics for Teaching
⋄ Assistant Instructor at UCLA Math Circle *Sept 2021 - Jun 2023*

Awards	Latin Honors, Magna cum laude	*Jun 2023*
	Highest Departmental Honors in Mathematics	*Jun 2023*
Service	UIUC Graduate Affairs Committee	*Aug 2023 - May 2024*
	Organization for Transformative Works (OTW)	*Oct 2018 - Present*
Skill	Programming Languages: R, Python, Java, C++	
	Other Mathematical Tools: MATLAB, Lean, Agda	
	General Tools: WordPress, LaTeX	
	Language: Chinese (native), English (fluent)	