

Jiantong Liu*

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| 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, 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 <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 20, 2023.

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

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| 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> |
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| 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) | |