Yuxiang Liu

Department of Mathematics, Statistics, and Computer Science
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RESEARCH

Algebraic geometry, intersection theory, enumerative geometry, Schubert calculus, relations to quantum cohomology, and representation theory.

EDUCATION

University of Illinois at Chicago, Chicago, Illinois, USA

- Ph.D. in Mathematics — Aug 2018 – Jun 2023 (excepted)
  - Thesis: Rigid Schubert classes in orthogonal Grassmannians
  - Adviser: Prof. Izzet Coskun
  - Focus: Algebraic Geometry.

University of California at San Diego, La Jolla, California, USA

- M.S. in Mathematics — Aug 2016 – Jun 2018

Sichuan University, Chengdu, Sichuan, CN

- B.S. in Mathematics and Applied and Mathematics — Aug 2012 – Jun 2016

Nankai University, Tianjin, CN

- Mathematics Summer School — Jul 2014 – Jul 2014

TEACHING EXPERIENCE

Teaching Assistant, University of Illinois at Chicago

- Calculus II (MATH 181) — Fall 2022
- Calculus III (MATH 210) — Summer 2022
- Calculus I (MATH 180) — Spring 2022
- Calculus I (MATH 180) — Fall 2021
- Calculus II (MATH 181) — Spring 2021
- College Algebra (MATH 110) — Fall 2020
- Calculus I (MATH 180) — Summer 2020
- Calculus II (MATH 181) — Spring 2020
- College Algebra (MATH 110) — Fall 2019
- Elementary Linear Algebra (MATH 125) — Spring 2019
- Applied Linear Algebra (MATH 310) — Fall 2018

TEACHING TRAININGS

- Teaching and Presentation of Mathematics (MATH 589) — Fall 2018
- Communication and Teaching Methods for International Teaching Assistants (GC 510) — Fall 2018

PUBLICATIONS

- The Rigidity problem in orthogonal Grassmannians, preprint, arXiv:2210.14540

AWARDS & SCHOLARSHIPS

- 6th China University Mathematics Preliminary Competition, First Prize, Chinese Mathematics Society Popularization committee — Dec 2014
- Special Scholarship, Sichuan University — Dec 2013
  Basic Sciences Talented Students Cultivation Test Plan
- 5th China University Mathematics Preliminary Competition, First Prize, Chinese Mathematics Society Popularization committee — Dec 2013
- China High School Students Mathematics Joint Competition, First Prize, China Mathematics Society — Oct 2011

SKILLS

TeX, LaTeX, X⅁LaTeX, MATLAB, Mathematica, Macaulay2, Microsoft Word, Microsoft Excel, Microsoft PowerPoint.

REFERENCES

- **Professor Izzet Coskun** (doctoral advisor)
  University of Illinois at Chicago
  coskun@math.uic.edu

- **Professor Lawrence Ein**
  University of Illinois at Chicago
  ein@uic.edu

- **Professor Colleen Robles**
  Duke University
  robles@math.duke.edu

- **Professor John Steenbergen** (teaching reference)
  University of Illinois at Chicago
  jbergen@uic.edu