# Jiamin Li | Curriculum Vitae

851 S. Morgan Street ,322 Science and Engineering Offices (M/C 249)
Chicago, IL 60607-7045

☑ jli283@uic.edu ● 협 jli283.github.io

## **Education**

University of Illinois at Chicago

PhD in Mathematics Advisor: Wenliang Zhang

**Binghamton University** *BSc (Hons) in Mathematics* 

**Binghamton, NY** 2014 – 2017

Chicago, IL

2018 - present

## **Research Interests**

Commutative algebra and algebraic geometry.

More specifically: local cohomology modules, asymptotic behaviors, multiplicities, D-modules and positive characteristics.

## **Papers**

- On the generalized multiplicities of maximal minors and sub-maximal pfaffians, arXiv:2205.09657, submitted
- Singularities of generic linkage via Frobenius powers, arXiv:2207.06380, Proc. Amer. Math. Soc., to appear
- Socle degrees for local cohomology modules of thickenings of maximal minors and sub-maximal Pfaffians, with Michael Perlman, arXiv:2212.06899, Proc. Amer. Math. Soc., to appear
- Vanishing of local cohomology and Segre products, with Wenliang Zhang, in progress

#### **Awards and Grants**

2023 – 2024 Dean's Scholar Fellowship at the University of Illinois at Chicago

Winter 2023 JMM 2023 AWM Poster Award (funding to attend conferences)

Fall 2022 AMS graduate student travel grant

2017 Award for Academic excellence of Mathematics at Binghamton University

#### **Talks**

November 2023 Commutative algebra seminar, Purdue University

November 2023 Commutative algebra seminar, University of Michigan

November 2023 Algebra Days in Arizona, Arizona State University

**October 2023** "Commutative Algebra, Differential Operators, and Singularities", AMS Sectional Meeting at Creighton University

June 2023 Lightening talk, Macaulay2 Workshop and Mini-school, University of Minnesota

October 2022 "Special session of commutative algebra", AMS Sectional Meeting at University of Utah

October 2022 Commutative Algebra and Algebraic Geometry seminar, University of Minnesota

March 2022 "Recent developments in commutative algebra", AMS Sectional Meeting at Purdue University

March 2022 Commutative algebra seminar, University of Illinois at Chicago

## **Posters**

January 2023 JMM 2023 AWM poster session, Boston

October 2022 KUMUNU 2022 Fall conference (poster), University of Nebraska-Lincoln

## **Services**

Co-Organizer of commutative and homological algebra student seminar at UIC

2023 - 2024

Co-Organizer of Graduate number theory seminar at UIC

2021 - 2022

## **Teaching Experience**

Fall 2018 College Algebra

Spring 2019 Linear Algebra for Business

Fall 2019 Linear algebra for Business

Spring 2020 Linear algebra for Business

Fall 2020 College Algebra

Fall 2021 Calculus I

Spring 2022 Calculus II

Spring 2023 Linear Algebra for Business

#### Grader

Fall 2022 Applied linear algebra, Introduction to number theory

Spring 2021 Linear algebra, Abstract Algebra

Last updated October 12, 2023