

Michael Morrow

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Education

University of Kentucky, Kentucky, USA

Ph.D. Mathematics

Advisor: Uwe Nagel

August 2019 - Present

University of Kentucky, Kentucky, USA

M.S. Mathematics

April 2021

Central Washington University, Washington, USA

B.S. Mathematics

June 2019

Research Interests

Computational and combinatorial commutative algebra, asymptotic algebra

Publications and Preprints

Computing Gröbner Bases and Free Resolutions of OI-Modules

with U. Nagel, submitted, available at [arXiv:2303.06725](https://arxiv.org/abs/2303.06725).

Awards and Fellowships

Summer Research Fellowship

University of Kentucky

Summer 2023

Eaves Fellowship

University of Kentucky

Summer 2022

Dale and Mary Jo Comstock Scholarship

Central Washington University

Spring 2019

Talks and Presentations

Computing Free Resolutions of OI-Modules

- (Invited) Joint Mathematics Meetings, San Francisco, CA
- Algebra Seminar, University of Kentucky

January 2024
November 2022

Computing Gröbner Bases and Free Resolutions of OI-Modules

- (Poster) BrianFest, University of Nebraska-Lincoln

August 2023

Gröbner Bases and Syzygies of Sequences of Related Ideals

- Spectra Survey of Mathematics Conference, University of Kentucky
- (Invited) AMS Fall Southeastern Sectional Meeting, University of Tennessee-Chattanooga

May 2023
October 2022

Finite Computation of Gröbner Bases for OI-Modules

- Qualifying Talk, University of Kentucky

December 2021

Equivariant Gröbner Bases

- Master's Talk, University of Kentucky

April 2021

Perfect Subsets of the Unit Interval: Some Surprising Results about the Real Numbers

- Mt. Stuart Math Seminar, Central Washington University

April 2019

Conferences and Workshops

BrianFest

University of Nebraska-Lincoln

August 2023

Summer CAMP

Professional development workshop

University of Nebraska-Lincoln

August 2023

Commutative Algebra and its Interaction with Algebraic Geometry

SLMath summer school

University of Notre Dame

May 2023

Spectra Survey of Mathematics Conference

University of Kentucky

May 2023

AMS Fall Southeastern Sectional Meeting

University of Tennessee-Chattanooga

October 2022

WARTHOG

Infinite-dimensional methods in commutative algebra

University of Oregon

June 2022

Macaulay2 Conference

Cleveland State University

May 2022

Teaching Experience

Instructor of Record, University of Kentucky

- Matrix Algebra
- College Algebra

Spring 2023

Summer 2021, Summer 2020

Recitation Leader, University of Kentucky

- Elementary Calculus
- Calculus II
- Calculus III
- Calc for Life Sciences
- Finite Math
- Algebra and Trig for Calculus

Fall 2023 (Lead TA), Spring 2020

Fall 2022

Spring 2022

Fall 2021

Spring 2021

Fall 2020, Fall 2019

Algebra Prelim Peer Coach, University of Kentucky

May 2023, December 2022

Service and Outreach

Algebra Seminar Co-organizer

University of Kentucky

Fall 2023

Graduate Student Peer Mentor

University of Kentucky

Fall 2020 - Fall 2022

Panel for Incoming First-Year Students

University of Kentucky

August 2021

Julia Robinson Math Festival

University of Kentucky

November 2019

Kittitas Valley Math Circle

Central Washington University

September 2017 - June 2019