# Ivan Aidun

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(505)-681-3602 ● aidun@wisc.edu

## Education

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|---|---|
| **University of Wisconsin, Madison** | **Madison, WI** |
| Ph.D Mathematics | In Progress |
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| **Oberlin College** | **Oberlin, OH** |
| B.A. Mathematics with Highest Honors | May 2019 |

## Publications and Preprints

**Gonality sequences of graphs**
SIAM J. Discrete Math, **35** (2021), no. 2, p. 814-839
Joint with Frances Dean, Ralph Morrison, Teresa Yu, and Julie Yuan

**On the gonality of Cartesian products of graphs**
Electronic Journal of Combinatorics, **27** (2020), no. 4
Joint with Frances Dean, Ralph Morrison, Teresa Yu, and Julie Yuan

**Treewidth and gonality of glued grid graphs**
Discrete Applied Mathematics, **279** (2020), p. 1-11
Joint with Frances Dean, Ralph Morrison, Teresa Yu, and Julie Yuan

**Graphs of gonality 3**
Algebraic Combinatorics, **2** (2019), no. 6, p. 1197-1217
Joint with Frances Dean, Ralph Morrison, Teresa Yu, and Julie Yuan

## Honors and Awards

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|---|---|
| **UW Math Department Exceptional Teacher Award** | Spring 2024 |

"For TAs past their first 2 years who have shown exceptional teaching."

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| **Rebecca Cary Orr Memorial Prize** | Spring 2019 |

"To an outstanding graduating senior on the basis of outstanding achievement in undergraduate mathematics and promise of future professional accomplishment."

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| **Outstanding Presentation** in the MAA Student Paper Sessions | **MAA Mathfest** |
| | Summer 2018 |

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| **John D. Baum Memorial Prize** | Spring 2017 |

"To the Oberlin student with the highest score on the Putnam exam."

## Conference Talks

- MAA Mathfest, Denver, Colorado, Student Paper Session, "Computing Geometric and Divisorial Gonality", 2018.

- JMM, Baltimore, Maryland, AMS-MAA-SIAM Special Session on Research in Mathematics by Undergraduates, "Graphs of Gonality Three", 2019. Joint with Julie Yuan, Frances Dean, and Teresa Yu.

## Seminar Talks

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|---|---|
| **UW—Madison Number Theory Seminar** | |
| Arithmetic Strength of Curves | Spring 2024 |
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| **UW—Madison Graduate Number Theory Seminar** | |
| Rational Points on Curves, an Introduction to Arithmetic Geometry | Fall 2024 |
| The Function Field Analogy and Zeta Functions | Fall 2022 |

Simple Sieving                                                           Fall 2020
Golomb Topologies and Infinitely Many Primes                            Fall 2019

**UW—Madison Graduate Algebraic Geometry Seminar**
Who is a Variety? Why is a Scheme?                                      Fall 2024
Dreaming AG in Technicolor                                           Spring 2024
What is ... a Divisor?                                                  Fall 2023
Gröbner Bases and Computations in Algebraic Geometry                    Fall 2022

## TEACHING

**Head Teaching Assistant**, University of Wisconsin—Madison
    **Math 222** Calculus and Analytic Geometry 2          Fall 2024, Spring 2023

    **Math 221** Calculus and Analytic Geometry 1                    Spring 2024

    **Math 234** Calculus–Functions of Several Variables                Fall 2021

**LSA (Lecturer)**
    **Math 112** Algebra                                               Fall 2023

**Algebra SEP Instructor**                                    Summer 2022, 2023, 2024
*(Summer course taught to 1st and 2nd year grad*
*students to help prepare for qualifying exams.)*

**Teaching Assistant**, University of Wisconsin—Madison
    **Math 321** Applied Mathematical Analysis                         Fall 2022
    **Math 240** Discrete Mathematics                               Spring 2022
    **Math 340** Elementary Matrix and Linear Algebra      Fall 2020-Spring 2021
    **Math 221** Calculus and Analytic Geometry 1                   Spring 2020
    **Math 234** Calculus–Functions of Several Variables                Fall 2019

**OWLS Leader**, Oberlin College
    **Math 220** Discrete Mathematics                               Spring 2019

## SERVICE

**UW—Madison AMS Student Chapter**
*Organizer*                                                    Fall 2023-Present

**UW—Madison Math Directed Reading Program**
*Organizer*                                              Spring 2023, Fall 2023
*Mentor*                                      Fall 2019, Fall 2021, Spring 2022

**UW—Madison Math Undergraduate Mentorship Program**
*Mentor*                                                           Fall 2022

**UW—Madison Math Circle**
*Speaker, Volunteer*                                     Fall 2021, Spring 2022