

Ivan AIDUN  
 PhD Student at UW—Madison  
 my surname, wisc.edu

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## EDUCATION

<b>University of Wisconsin, Madison</b> Ph.D Mathematics	<b>Madison, WI</b> In Progress
<b>Oberlin College</b> B.A. Mathematics with Highest Honors	<b>Oberlin, OH</b> May 2019

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## 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

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## HONORS AND AWARDS

<b>UW Math Department Exceptional Teacher Award</b> “For TAs past their first 2 years who have shown exceptional teaching.”	Spring 2024
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<b>Rebecca Cary Orr Memorial Prize</b> “To an outstanding graduating senior on the basis of outstanding achievement in undergraduate mathematics and promise of future professional accomplishment.”	Spring 2019
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<b>Outstanding Presentation</b> in the MAA Student Paper Sessions	<b>MAA Mathfest</b> Summer 2018
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<b>John D. Baum Memorial Prize</b> “To the Oberlin student with the highest score on the Putnam exam.”	Spring 2017
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## 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.

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## SEMINAR TALKS

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

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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