

Angela L. Kohlhaas

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Education

Ph.D. Mathematics, University of Notre Dame, 2010

M.S. Mathematics, University of Notre Dame, 2007

B.A. Mathematics, Wartburg College, 2005

B.A. Music, Wartburg College, 2005

Teaching

Associate Professor 2017–present
Loras College Dubuque, IA

Assistant Professor 2010–2017
Loras College Dubuque, IA

At Loras College, I have taught classes at a variety of levels, including College Algebra, Pre-calculus, Calculus I, II, and III, Discrete Mathematics, Linear Algebra, Modern Geometry, Modern Algebra, Math Seminar, and Math Portfolio. In addition to regular coursework, I have led independent studies in Accelerated Calculus and Modern Geometry. I have also developed and taught a January term course on math in art and music, and have taught Modes of Inquiry, Loras's first year seminar course.

Instructor and Teaching Assistant 2006–2009
University of Notre Dame South Bend, IN

At the University of Notre Dame, I was the instructor for first and second-semester calculus courses for scientists and engineers. I was a teaching assistant for a variety of calculus courses, including honors calculus and multivariable calculus, as well as a linear algebra and differential equation course.

Research

Undergraduate Research Adviser 2010–present
Loras College Dubuque, IA

Alex Nelson	Musical Tuning Systems and Continued Fractions	2017–2018
Sarah Schoel	Fractal Sequence Analysis and Creation of Art and Music	2016–2017
Kim Anderson	Fractal Analysis of Music	2014–2015
Nicole Feldhaus	Determinants of Sudoku	2012–2013
Logan Benson	Projective geometry in perspective art	2012–2013
Katie Burke	Reduction numbers of monomial ideals	2011–2012
Mary Bohlke	Paper-folding geometry	2010–2011

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Research Assistant
Claudia Polini

2006–2010
University of Notre Dame

Studied cores of ideals in polynomial rings and their relationship to the adjoint of an ideal. My methods are largely combinatorial, involving polyhedral geometry and the analysis of Hilbert coefficients.

Papers

A. Kohlhaas, Coefficient ideals in dimension two, *Illinois Journal of Mathematics* 58 (2014), no. 4, 1041-1053. <https://projecteuclid.org/euclid.ijm/1446819300#abstract>

A. Kohlhaas, Symmetry in the core of a zero-dimensional monomial ideal, *Journal of Algebra* 453 (2016), 364-376. <http://dx.doi.org/10.1016/j.jalgebra.2016.01.018>

A. Kohlhaas, The core and the adjoint: a condition for equality. In preparation.

Presentations

MAA Section Meeting	Loras College	October 2017
Admissions visit	Bishop Garrigan High School	May 2017
Bi-State Math Colloquium	Loras College	November 2016
Math Teacher's Circle	Clarke University	January 2016
MAA Section Meeting	Graceland University	October 2015
Bi-State Math Colloquium	Loras College	September 2015
AMS Sectional Meeting	Georgetown University	March 2015
MAA Section Meeting	Clarke University	September 2014
MAA Section Meeting	Simpson College	October 2012
Bi-State Math Colloquium	Loras College	February 2012
MAA Section Meeting	Coe College	October 2010
AMS Section Meeting	University of New Mexico	April 2010
AMS Section Meeting	University of Kentucky	March 2010
Bi-State Math Colloquium	Loras College	February 2010
Joint Meetings AWM Poster Session	San Francisco, CA	January 2010
Algebraic Geometry Seminar	University of Iowa	December 2009
Departmental Seminar	Wartburg College	November 2009
AMS Section Meeting	Florida Atlantic University	October 2009
AMS Section Meeting	Penn State	October 2009
PASI Poster Session	Olinda, Brazil	August 2009
Commutative Algebra Seminar	Purdue University	April 2009

Service

Loras College Committees

- Faith and Values Committee Member, 2017–present
- First Year Experience Committee Member, 2017–present
- Quantitative Reasoning Core Curriculum Working Group Member, 2017–present
- Foundations of Excellence Faculty Dimension Member, Spring 2017
- Search Committee Member, Chemistry program, 2016–2017

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- Faculty Policies Committee Member, 2014–2017
- Admissions and Academic Standards Committee Member, 2014–2017
- Hospitality Committee Coordinator for River Crossing Interfaith Conference at Loras College, February 2017, February 2016
- Quality Initiative Task Force Member, 2015–2016
- Common Time Task Force Member, 2015–2016
- Interfaith Committee, 2014–2016
- Search Committee Member, Psychology program, 2014–2015
- Transfer Students Committee, 2014–2015
- Faculty Secretary, 2011–2013
- Member, Quantitative Reasoning Committee, 2010–2011

Loras College Math Program and MECS Division

- Organizer, Homecoming Math Alumni Panel, Fall 2017
- Organizer, Loras Math Booth, Dubuque Family STEM Festival, 2014–present
- Organizer, Loras GPML High School Math Competition, 2013–present
- Grader and Loras team sponsor, Iowa Collegiate Mathematics Competition, 2011–present
- Organizer, Bi-State Math Colloquium, 2010–present
- Tasty Tuesday/Wisdom Wednesday co-host, 2010–present
- Peer Review Committee Member, 2015 and 2016
- Math Alumni Newsletter Coordinator, 2014–2016
- Math Program Website Committee Chair, 2012–2013
- Math Club Adviser, Loras College, 2011–2013
- Search Committee Member, Math program, 2011–2012

Loras College Community

- Panelist, Music and Mental Health Honors Project, Loras College, Fall 2017
- Speaker, Beyond Antioch Kenosis Retreat, Loras College, Spring 2017
- Cast Member, Faculty/Staff Play, Loras College, August 2016, August 2014, August 2012
- Presidential Scholarship Day Essay Reader, Loras College, February 2016
- Honors Project Co-mentor, Loras College, 2015–2016
- Just Prayer Organizer, Loras College, 2015–2016
- Presidential Scholarship Day Interviewer, Loras College, February 2015, February 2013
- Dance Marathon Honorary Morale Captain, April 2017, April 2015, April 2014, April 2013
- Applied Piano Instructor, Loras College 2012
- Assistant Instructor of Ultimate Frisbee, Loras All Sports Camp, Summer 2012
- Participant, Faculty Talent Show, Loras College, Spring 2012
- Reader, Mysteries of Christmas, Loras College December 2011

Professional Mathematical Societies

- Vice Chair and Fall meeting organizer, MAA Iowa Section, 2017–2018
- Vice Chair Elect and Fall meeting host, MAA Iowa Section, 2016–2017

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- Teaching Award Committee, MAA Iowa Section, Fall 2016
- Co-organizer, Iowa NExT Workshop, Central College, October 2015
- Iowa NExT Steering Committee Member, 2011–2015
- Referee for "On complete monomial ideals," *Journal of Commutative Algebra*, Spring 2014
- Nomination Committee Member, MAA Iowa Section, Fall 2014
- Organizer, Iowa NExT Workshop, Simpson College, October 2012
- Co-organizer, Project NExT panel on interdisciplinary courses, MathFest, Madison, August 2012
- Abstracts Judge, Young Mathematician's Conference, The Ohio State University, Summer 2012
- Reader and interviewee, AWM Biographies of Women in Mathematics essay contest, 2010-2011
- Session Moderator, AMS Section Meeting, University of Notre Dame, November 2010
- Session Moderator, MAA Section Meeting, Coe College, October 2010

Dubuque Community

- Children of Abraham Panelist, January 2018
- Catechesis of the Good Shepherd Atrium Assistant, 2017–present
- Adult Faith Formation Committee Member, Archdiocese of Dubuque, 2015–present
- Threshold Singer for Hospice, Dubuque, 2013–present
- Member and Accompanist, Cathedral Choir, Dubuque, 2011–present
- Leader, Women's Retreat, St. Raphael's Cathedral, Fall 2011

Professional Memberships

Project NExT

Iowa Section NExT

Mathematical Association of America