

Edward F. Price III

Curriculum Vitae

✉ price79@purdue.edu

📄 <https://www.math.purdue.edu/~price79/>

Education

2012–2020 **PhD**, *Purdue University*, West Lafayette, IN, *Mathematics*.

Thesis Advisor: Bernd Ulrich

2008–2012 **BS**, *Benedictine University*, Lisle, IL, *Mathematics*.

summa cum laude

Teaching Experience

Fall 2019 **Math Resource Room Supervisor.**

Supervised operations in the Math Resource Room, a tutoring center for mathematics classes at or below the multivariate calculus level.

Summer 2019 **MA 598 - Linear Algebra for Data Science**, *Instructor*.

Online introductory linear algebra course for graduate students interested in data science. Managed and graded assignments, quizzes, and exams. Held virtual office hours.

Spring 2019 **MA 266 - Ordinary Differential Equations**, *Lecture*.

Fall 2018 **MA 16010 - Applied Calculus I**, *Special TA Assignment*.

Experimental flipped classroom section for polytechnic students focusing on practical applications with group projects. Assisted the professor in designing course, redesigning curriculum, and advised the professor on group projects. Developed and recorded mathematics videos.

Summer 2018 **MA 261 - Multivariate Calculus**, *Lecture*.

Spring 2018 **MA 16020 - Applied Calculus II**, *Lecture*.

Spring 2017 **MA 16020 - Applied Calculus II**, *Lecture*.

Fall 2016 **MA 161I - Calculus I (IMPACT)**, *Special TA Assignment*.

IMPACT uses a flipped classroom approach.

Summer 2016 **MA 266 - Ordinary Differential Equations**, *Lecture*.

Spring 2016 **MA 162I - Calculus II (IMPACT)**, *Special TA Assignment*.

IMPACT uses a flipped classroom approach.

Fall 2015 **MA 503 - Abstract Algebra**, *Special TA Assignment*.

Introductory abstract algebra course for first semester mathematics graduate students. Held weekly recitation and graded homework.

Summer 2015 **MA 266 - Ordinary Differential Equations**, *Lecture*.

Spring 2015 **MA 137 - Mathematics for Elementary Teachers I**, *Lecture*.

Fall 2014 **MA 161I - Calculus I (IMPACT)**, *Special TA Assignment*.

IMPACT uses a flipped classroom approach.

Summer 2014 **MA 265 - Linear Algebra**, *Lecture*.

Spring 2014 **MA 223 - Business Calculus I**, *Lecture*.

Fall 2013 **MA 153 - Algebra and Trigonometry I**, *Lecture*.

Spring 2013 **MA 162 - Calculus II**, *Recitation*.

Fall 2012 **MA 162 - Calculus II**, *Recitation*.

Invited Talks

Apr 2020* **Degree Bounds on Defining Equations of Rees Algebras of Certain Determinantal Ideals**, *American Mathematical Society Spring Central Sectional Meeting*, Special Session on Commutative Algebra and Connections with Algebraic Geometry, Purdue University.

*Conference canceled due to the COVID-19 pandemic

Mar 2020 **Degree Bounds on Defining Equations of Rees Algebras of Certain Determinantal Ideals**, *Commutative Algebra Seminar*, University of California, Riverside.

Mar 2019 **Rees Algebras of Grade 3 Gorenstein Ideals**, *American Mathematical Society Spring Southeastern Sectional Meeting*, Special Session on Commutative and Combinatorial Algebra, Auburn University.

Mar 2018 **So you think it's easy to solve $(x - 2)(x - 3) = 0$?**, Rose-Hulman Institute of Technology.

Contributed Talks

Apr 2019 **Defining Equations of Rees Algebras**, *Indiana Section of the Mathematical Association of America*, University of Indianapolis.

Sept 2018 **The Ordinal Numbers and Transfinite Induction**, *Student Colloquium*, Purdue University.

Sept 2017 **Field Theory and Constructions Using a Straightedge and Compass**, *Student Colloquium*, Purdue University.

Sept 2015 **The Ordinal Numbers and Transfinite Induction**, *Student Colloquium*, Purdue University.

Jan 2014 **Proving a Sentence is Independent**, *Student Colloquium*, Purdue University.

Mar 2012 **Building Group Extensions Storing Only 2-Cocycles for Relators**, *Illinois Section of the Mathematical Association of America*, Illinois State University.

Aug 2011 **Using Cayley Graphs to Build Groups**, *MathFest*, Lexington, KY.

Apr 2011 **Modifications of Thomae's Function**, *Illinois Section of the Mathematical Association of America*, North Central College (Naperville, IL).

Apr 2011 **Modifications of Thomae's Function**, *Undergraduate Research, Scholarship, and Arts Event*, Benedictine University (Lisle, IL).
Awarded Best Session Presentation

Apr 2010 **A High School Lesson on Morley's Theorem Using Cinderella**, *Associated Colleges of the Chicago Area Student Symposium*, Lewis University (Romeoville, IL).

Awards and Honors

Apr 2019 **Leadership and Service Award**, *Purdue LGBTQ Center*, Purdue University.

Award description: This award is determined by the center Director and staff and recognizes individuals who exemplify the distinct qualities of transformational servant-leaders who are often the unsung heroes of social change and community improvement.

- Apr 2016 **Graduate Teaching Award**, *Teaching Academy*, Purdue University.
Only three individuals in the Purdue Department of Mathematics receive this award per year.
- Oct 2015 **Excellence in Teaching Award**, *Department of Mathematics*, Purdue University.
Only six individuals receive this award per year.
- May 2012 **Benedictine Service Award**, Benedictine University.
Award description: Awarded to a student for outstanding service to the University in general and to fellow students in particular. The student must have worked effectively with others and commanded the respect of the University community.
- May 2012 **Benedictine Scholar**, Benedictine University.
Successfully completed the Benedictine University Scholars Program.

Service

- 2018–2020 **Volunteer Mathematics Tutor**, *LGBTQ Center*, Purdue University.
- 2019–2020 **Speaker's Bureau Member**, *LGBTQ Center*, Purdue University.
Serves on panels discussing experiences as a member of the LGBTQIA+ community at Purdue.
Served on 6 panels.
- 2019–2020 **Community Standards Board Member**, *Office of Student Rights and Responsibilities*, Purdue University.
Served as student member on board to determine student responsibility and recommend sanctions for student misconduct rising to the level of suspension or expulsion. Served on 7 boards.
- 2017–2018 **Graduate Representative**, *Department of Mathematics*, Purdue University.
One of four representatives for the grad students to administration in the department, organized prospective graduate student visiting weekend, hosted social events for grad students and for the whole department (including faculty and staff), organized a "Graduate Research Day" mini-conference for graduate students in the department to talk about research.
- Aug 2015 **Senior Teaching Assistant**, *Department of Mathematics*, Purdue University.
Assisted with new TA training, assisted with the screening process for potential new TA's by evaluating their teaching and making recommendations for an appropriate teaching assignment.
- 2014–2017 **AWM Mentor**, *Association for Women in Mathematics*, Purdue University.
Mentor for prospective and incoming graduate students.
- 2014–2017 **Purdue Graduate Student Government**, Purdue University.
Vice President for Internal Affairs, 2016–2017.
Secretary, Summer 2016.
President Pro-Tempore, 2015–2016.
Chair of the Legislative and Strategic Planning Committee, 2015–2016.
Senator for the Department of Mathematics, 2014–2016.
- 2010–2012 **Student Senate**, Benedictine University.
President, 2011–2012.
Met with President, Executive Vice President, Provost of the University monthly, served as non-voting member and student representative on the Board of Trustees, oversaw operations of the Student Senate.
Speaker Pro-Tempore, Spring 2011.
Parliamentarian, Chair of Internal Affairs Committee, liaison between Senators and Executive Board of Student Senate.

Campus Services and Safety Committee Chair, Spring 2011.

Met monthly with Director of Campus Services and Chief of Police.

Senator for College of Education and Health Services, Fall 2010.

Selected Conferences and Workshops Attended

- Oct 2019 **Indiana Section of the Mathematical Association of America**, Wabash College.
- June 2019 **Conference on Commutative Algebra and its Interaction with Algebraic Geometry: in honor of Bernd Ulrich**, *Thematic Program in Commutative Algebra and its Interaction with Algebraic Geometry*, University of Notre Dame.
- June 2019 **MSRI Graduate Summer School and Macaulay2 Workshop**, *Thematic Program in Commutative Algebra and its Interaction with Algebraic Geometry*, University of Notre Dame.
- Apr 2019 **Indiana Section of the Mathematical Association of America**, University of Indianapolis.
- Mar 2019 **Spring Southeastern Sectional Meeting of the American Mathematical Society**, *Special Session on Commutative and Combinatorial Algebra*, Auburn University.
- Oct 2018 **Fall Central Sectional Meeting of the American Mathematical Society**, *Special Session on Advances in Commutative Algebra*, University of Michigan.
- Oct 2018 **Indiana Section of the Mathematical Association of America**, Hanover College.
- Mar 2018 **Algebraic Geometry and its Broader Implications: in honor of Robin Hartshorne**, University of Illinois at Chicago.
- May 2017 **A View Towards Algebraic Geometry: a conference in honor of David Eisenbud**, Martha's Vineyard, MA.
- Nov 2016 **Workshop on Homological Conjectures in Commutative Algebra**, University of Illinois at Chicago.
- July 2016 **Commutative Algebra Conference Honoring Craig Huneke**, University of Michigan.
- May 2016 **Midwest Commutative Algebra and Algebraic Geometry Conference: a meeting in honor of Juan Migliore**, University of Notre Dame.
- Aug 2015 **Midwest Commutative Algebra Conference**, Purdue University.