Nicholas Packauskas | CV

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Education

University of Nebraska — **Lincoln**
Ph.D. in Mathematics (May 2019), advised by L. Avramov and M. Walker *2013–present*

University of Nebraska — **Lincoln**
Master of Science in Mathematics *2013–2015*

University of Kansas — **Lawrence**
Master of Arts in Mathematics, advised by D. Katz *2010–2013*

University of Kansas — **Lawrence**
B.S. in Mathematics *2006–2010*

Research

Interests

Commutative algebra and algebraic geometry. I am particularly interested in homological methods and infinite free resolutions.

Invited Workshops and Summer Schools

○ *RTG Summer School on Topics in Commutative Algebra* *May 2018*
A workshop consisting of several major, active research topics in commutative algebra held at the University of Utah from May 7-11 2018.

○ *Structures on Free Resolutions* *October 2017*
A workshop on "Structures on Free Resolutions" and related topics held at Texas Tech University from October 26-28 2017.

○ *MSRI Summer School: Commutative Algebra and Related Topics* *May 2017*
An MSRI summer school consisting of four curses during a two-week period held at the Okinawa Institute of Science and Technology from May 22 - June 2 2017.

○ *RTG Workshop on the Homological Conjectures in Commutative Algebra* *November 2016*
A workshop consisting of three mini-courses at the University of Illinois at Chicago from November 18 - 20 2016.

Expository Papers

○ *Cohen-Macaulayness and the First Hilbert Coefficient for a Parameter Ideal*
As part of my Master of Arts degree at KU, I wrote an expository paper under the supervision of Daniel Katz.

Talks

Teaching Experience and Development

August 2013 - present, University of Nebraska...

Instructor of Record
○ Math 101, College Algebra   *Spring 2018*
○ Math 208, Calculus III   *Fall 2017*
○ Math 223, Differential Equations   *Summer 2015, 2016, Spring 2017*
○ Math 103, College Algebra and Trigonometry   *Fall 2015, 2016*
○ Math 203, Contemporary Mathematics   *Spring 2016*
○ Math 100A, Intermediate Algebra   *Fall 2014, Spring 2015*

Teaching Assistant
○ Math 208, Calculus III   *Fall 2018*
○ Math 106, Calculus I   *Spring, Summer 2014*
○ Math 107, Calculus II   *Fall 2013*

Grading
○ I have graded several classes for faculty instructors at the University of Nebraska-Lincoln, including the undergraduate courses Applied Calculus, Modern Algebra, and Number Theory. I have also graded the graduate courses Topology and Algebraic Topology.

Instructor of Record
- Math 105, Topics in Mathematics   *Summer 2013*
- Math 115E, Applied Calculus I: Enhanced Section   *Spring 2013*
- Math 115, Applied Calculus I   *Fall 2010, Fall 2012*
- Math 116, Applied Calculus II   *Fall 2011, Spring 2012*
- Math 002, Intermediate Algebra   *Spring 2011*

Teaching Assistant
- Math 105, Topics in Mathematics   *Spring 2010*
- Math 365, Elementary Statistics   *Fall 2009*
- Math 115, Applied Calculus   *Fall 2008*

Pedagogical Development...

- **Mathematics Department Teaching Mentor Program**   *Fall 2016 - present*
  I was observed several times by an experienced faculty member (Susan Hermiller) and we met periodically to discuss teaching.
- **Math 896: Teaching and Learning Mathematics**   *Fall 2014, Spring 2015*
  I completed a three credit-hour course sequence covering fundamental topics in mathematics education and the role of active learning in the classroom.

Service and Professional Development

- **Preparing Future Faculty Fellow**   *Summer 2018*
  I participated in the PFF program, which is intended to help PhD students understand the job application process and transition to a faculty position.
- **New Student Enrollment, Math Advising Assistant**   *Summer 2018*
  I worked at New Student Enrollment helping new students choose which mathematics course to take during the upcoming academic year.
- **KUMUNU Jr., Co-Organizer (Co-PI)**   *April 2018, 2019*
  KUMUNU Jr., Local Co-Organizer   *April 2017*
  An annual NSF-funded conference for graduate students and post-docs in commutative algebra held at the University of Nebraska-Lincoln.
- **Commutative Algebra Reading Seminar, Co-Organizer**   *January 2016 - January 2018*
  A seminar for graduate students of the University of Nebraska-Lincoln who are interested in commutative algebra and its related areas.
- **AMS Student Chapter at UNL, President**   *Fall 2015 - 2016*
  I served in a leading capacity for the graduate student chapter of the American Mathematical Society at the University of Nebraska. My responisbilities included organizing a visiting colloquium speaker, distributing travel funds, and organizing local events.
- **Math Day Volunteer**   *2013 - present*
  An annual day of math competitions for Nebraska high school students. I helped keep time and proctor during competitions, as well as volunteer at the puzzles and games table.
- **Mathematics Resource Center Counselor**   *2013 - present*
  One semester each year, I tutored students in lower-level math courses for two hours every week.