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# Jennifer Kenkel

## Employment

**University Research Postdoctoral Fellowship**, *University of Kentucky*, Lexington, KY. **2019-2020**

**Postdoctoral Assistant Professor**, *University of Michigan*, Ann Arbor, MI. **2020-present**

## Education

**Ph.D.**, *University of Utah*, Salt Lake City, UT. **August 2019**

**Bachelor of Arts**, *Washington University in St. Louis*, St. Louis, **May 2013**  
*With Honors.*

## Ph.D. thesis

**Title:** *Local Cohomology Modules of Thickenings*

**Advisor:** Anurag Singh

## Talks

### *AMS Sectional Talks*

**“Construction of Local Cohomology Modules With an FI Structure.”**, *Virtual.*, Intended to take place at the University of Tennessee. **October 2020**

**“Construction of Local Cohomology Modules With an FI Structure.”**, *Virtual.*, Intended to take place at Pennsylvania State University. **October 2020**

**“Local Cohomology of Thickenings.”**, *Baltimore Convention Center.*, Joint Mathematics Meeting. **January 2019**

**“Local Cohomology Modules of Determinantal Rings”**, *University of Michigan.* **October 2018**

**“Lengths of Local Cohomology Modules of Thickenings”**, *Northeastern University.* **April 2018**

**“Lengths of Local Cohomology Modules of Thickenings”**, *Portland State University.* **April 2018**

**“Local Cohomology of Thickenings”**, *Washington State University.* **April 2017**

### Other Conference Talks

- “Local Cohomology of Thickenings on Sequences of Rings”**, *A Virtual Online Conference*, CAZOOM. April 2020
- “Local Cohomology of Thickenings on Sequences of Rings”**, *Clemson University*, Algebra Seminar. April 2020
- “Local Cohomology”**, *University of Minnesota*, Graduate Workshop in Commutative Algebra for Women & Mathematicians of Other Minority Genders. April 2019
- “Local Cohomology of Thickenings”**, *University of Nebraska, Lincoln*, KUMUNU Jr. April 2017

### Seminar Talks

- “FI Algebras”**, *University of California Riverside*. January 2021
- “Local Cohomology of Thickenings on Sequences of Rings”**, *University of Arkansas*. February 2021
- “Briggs’ Proof of a Conjecture of Vasconcelos”**, *University of Michigan*, Preprint algebraic geometry seminar. October 2020

### Publications

- Jennifer Kenkel**, *“Isomorphisms Between Local Cohomology Modules As Truncations of Taylor Series”*, arXiv:2005.11898. 2020
- Zhibek Kadyrsizova, Jennifer Kenkel, Janet Page, Jyoti Singh, Karen E. Smith, Adela Vraciu, Emily E. Witt**, *“Cubic Surfaces of Characteristic Two”*, arXiv:2007.12018. 2020
- Zhibek Kadyrsizova, Jennifer Kenkel, Janet Page, Jyoti Singh, Karen E. Smith, Adela Vraciu, Emily E. Witt**, *“Extremal Singularities in Positive Characteristic”*, arXiv:2009.13679. 2020
- Jennifer Kenkel and Kyle Maddox and Thomas Polstra and Austyn Simpson**, *“ $F$ -nilpotent rings and permanence properties.”*, arXiv:1912.01150. 2020
- Jennifer Kenkel**, *“Lengths of Local Cohomology of Thickenings”*, arXiv:1912.02917. 2019
- Madeline Brandt, William Dickinson, AnnaVictoria Ellsworth, Jennifer Kenkel, Hanson Smith**, *Optimal Packings of Two to Four Equal Circles on Any Flat Torus*, arXiv:1708.05395. August 2017
- Luca Weihs, Bill Robinson, Emile Dufresne, Jennifer Kenkel, Kaie Kubjas, Reginald L. McGee II, Nhan Nguyen, Elina Robeva, Mathias Drton**, *Determinantal Generalizations of Instrumental Variables*, Journal of Causal Inference. February 2017

## Teaching Experience

### *As Primary Instructor*

<b>Introduction to Modern Algebra</b> , <i>Primary Instructor</i> , University of Michigan, Two sections. In person	<b>Winter 2022, Fall 2022</b>
<b>Linear Algebra</b> , <i>Primary Instructor</i> , University of Michigan, Two sections. Remote	<b>Fall 2020, Winter 2021</b>
<b>Discrete Math</b> , <i>Primary Instructor</i> .	<b>Summer 2018</b>
<b>Linear Algebra</b> , <i>Primary Instructor</i> .	<b>Summer 2017</b>
<b>Applied Statistics</b> , <i>Primary Instructor</i> .	<b>Fall 2016</b>
<b>Introduction to Statistics</b> , <i>Primary Instructor</i> .	<b>Fall 2015</b>
<b>Precalculus</b> , <i>Primary Instructor</i> .	<b>Fall 2014</b>
<b>Business Algebra</b> , <i>Primary Instructor</i> .	<b>Fall 2013, Spring 2014</b>

### *Other*

<b>Teacher Training Facilitator</b> , <i>Organized workshops for two-week long instructor training, gave feedback on practice lectures and assignments.</i>	<b>August 2018</b>
<b>Math Center Tutor</b> , <i>Tutored drop-in University of Utah students on topics from introductory to intermediate level undergraduate math classes.</i>	<b>Fall 2013, Spring 2014, Fall 2015, Fall 2016</b>

## Service

### *Conferences and Seminars*

<b>Organizer</b> , <i>Special Session on Commutative Algebra</i> , AMS Sectional at the University of Utah.	<b>Fall 2022</b>
<b>Organizer</b> , <i>Special Session on Recent Developments in Commutative Algebra</i> , AMS Sectional at Purdue.	<b>Spring 2022</b>
<b>Organizer</b> , <i>Virtual Commutative Algebra Seminar</i> , University of Michigan.	<b>Spring 2022</b>
<b>Graduate Student Commutative Algebra Seminar Coordinator</b> , <i>University of Utah.</i>	<b>2016-2018</b>
<b>Graduate Student Advisory Committee Colloquium Chair</b> , <i>University of Utah</i>	<b>2016-2017</b>

## Outreach

<b>Math Corps Instructor</b> , <i>University of Michigan</i> , The Math Corps program is a free summer camp for 7th-9th graders..	<b>Summer 2022</b>
<b>Undergraduate Math Club Talk</b> , <i>University of Michigan</i> .	<b>Fall 2021</b>
<b>Undergraduate Math Club Talk</b> , <i>University of Kentucky</i> .	<b>Fall 2018</b>
<b>Helped Undergraduates with <math>\LaTeX</math> at a SIAM AWM <math>\LaTeX</math>workshop</b> , <i>University of Utah</i> .	<b>Fall 2018</b>
<b>Participated in Women in Math Panel for the University of Utah ACCESS Program</b> , The ACCESS Program provides a supportive path for women in the sciences, starting with a summer long introduction to Science at the University of Utah..	<b>Summer 2018</b>
<b>Undergraduate Student Orientations Math Talks</b> , <i>University of Utah</i> .	<b>Summer 2018</b>
<b>SACNAS Poster presentation</b> , <i>University of Utah</i> .	<b>Fall 2017</b>
<b>Calculus Carnival Volunteer</b> , <i>University of Utah</i> .	<b>Fall 2017</b>
<b>Math Medley at the Leonardo Museum</b> , Spoke on "Local Cohomology" to a broad audience.	<b>Spring 2017</b>
<b>Stirling Scholarship Judge</b> .	<b>February 2017, 2018</b>
<b>Science Day Volunteer</b> , <i>University of Utah</i> .	<b>Fall 2014</b>

## Other

<b>Referee for Czechoslovak Mathematical Journal</b> .	<b>Spring 2021</b>
<b>Referee for Czechoslovak Mathematical Journal</b> .	<b>Summer 2020</b>
<b>Referee for Rocky Mountain Journal</b> .	<b>Spring 2020</b>
<b>Organized Monthly Lunch Discussions on Gender and Academia</b> , <i>University of Utah</i> .	<b>Fall 2018</b>
<b>AWM University of Utah Chapter Secretary</b> , <i>University of Utah</i> .	<b>2018-2019</b>
<b>Graduate Student Advisory Committee Student Social Life Committee Chair</b> , <i>University of Utah</i> .	<b>2016-2019</b>

Awards	<b>The Allen Shields Award, <i>Outstanding Postdoctoral Teaching Award.</i></b>	<b>Spring 2022</b>
	<b>NSF Research Training Grant RTG-1246989 Fellowship, <i>Approximately four geometry/topology students in the department receive RTG fellowships each academic year.</i></b>	<b>Fall 2016</b>
	.	<b>Spring 2017</b>
	.	<b>Spring 2018</b>
	.	<b>Fall 2018</b>
	<b>Mathematics Department Travel Award.</b>	<b>Spring 2015</b>
Undergraduate Research (Mentor)	<b>Research Experience for Undergraduates, <i>University of Michigan, Ann Arbor, MI, With Janet Page and Daniel Smolkin, mentored three undergraduates with a project in commutative algebra.</i></b>	<b>Summer 2021</b>
Undergraduate Research (Mentee)	<b>Research Experience for Undergraduates, <i>Grand Valley State University, Allendale, MI.</i></b>	<b>Summer 2011</b>
	<b>Research Experience for Undergraduates, <i>California State University Channel Islands, Channel Islands, CA.</i></b>	<b>Summer 2012</b>
	<b>Mentoring Through Critical Transition Points, <i>Texas A&amp;M, College Station, TX.</i></b>	<b>Summer 2013</b>