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Jennifer Kenkel

Employment

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

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

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

“Asymptotic Behavior of Differential Powers”, Jennifer Kenkel, Lillian McPherson, Janet Page, Daniel Smolkin, Monroe Stephenson, Fuxiang Yang, <https://arxiv.org/abs/2111.15653>. **2021**

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

Introduction to Modern Algebra, *Primary Instructor*, University of Michigan, Two sections. **Winter 2022, Fall 2022**
In person

Linear Algebra, *Primary Instructor*, University of Michigan, Two sections. **Fall 2020, Winter 2021**
Remote

Discrete Math, *Primary Instructor*. **Summer 2018**

Linear Algebra, *Primary Instructor*. **Summer 2017**

Applied Statistics, *Primary Instructor*. **Fall 2016**

Introduction to Statistics, *Primary Instructor*. **Fall 2015**

Precalculus, *Primary Instructor*. **Fall 2014**

Business Algebra, *Primary Instructor*. **Fall 2013, Spring 2014**

Other

Teacher Training Facilitator, *Organized workshops for two-week long instructor training, gave feedback on practice lectures and assignments.* **August 2018**

Math Center Tutor, *Tutored drop-in University of Utah students on topics from introductory to intermediate level undergraduate math classes.* **Fall 2013, Spring 2014, Fall 2015, Fall 2016**

Service

Conferences and Seminars

Organizer, *Special Session on Commutative Algebra*, AMS Sectional at the University of Utah. **Fall 2022**

Organizer, *Special Session on Recent Developments in Commutative Algebra*, AMS Sectional at Purdue. **Spring 2022**

Organizer, *Virtual Commutative Algebra Seminar*, University of Michigan. **Spring 2022**

Graduate Student Commutative Algebra Seminar Coordinator, *University of Utah.* **2016-2018**

Graduate Student Advisory Committee Colloquium Chair, *University of UtahUniversity of Utah.* **2016-2017**

Outreach

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

Other

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

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