Yevgeniya (Jenna) Tarasova

CONTACT INFORMATION	Department of Mathematics Purdue University 150 North University Street West Lafeyette, IN, 47906-2067	✉ E-mail: ytarasov@purdue.edu Phone: (408) 886-0416

RESEARCH INTERESTS

Commutative Algebra: Linkage, residual intersections, F-singularities, Cohen-Macaulay rings, Gorenstein rings, Rees algebras.

EMPLOYMENT

Purdue University, Visiting Assitant Professor   2022–

EDUCATION

Purdue University, West Lafayette, Indiana   2015–2022

- Ph.D. in Mathematics
- Advisor: Bernd Ulrich.

University of California, Santa Barbara, Isla Vista, California   2011–2015

- B.S. in Mathematics.

PUBLICATIONS AND PREPRINTS

- *Generators of residual intersections*: (2021), preprint arXiv:2111.14009.
- *Generating residual intersections of determinantal ideals*: (2022), preprint arXiv:2210.15005.
- *Linkage and F-regularity of determinantal rings*: with Vaibhav Pandey, (2022), preprint arXiv:2211.07922.

FELLOWSHIPS

- Purdue University GAANN Fellowship   Fall 2019–Summer 2020
- Research Assistant   Fall 2020–Spring 2021

TEACHING EXPERIENCE

- MA 26500, Linear Algebra, Instructor   Fall 2022
- MA 26100, Multivariate Calculus, Online Instructor   Summer 2022
- MA 16020, Applied Calculus II, Instructor   Spring 2022
- MA 15800, Precalculus – Functions and Trigonometry, Forum Moderator   Fall 2021
- MA 15800, Precalculus – Functions and Trigonometry, Instructor   Spring 2019
- MA 26100, Multivariate Calculus, Recitation Instructor   Fall 2018
- MA 16100, Analytic Geometry and Calculus I, Recitation Instructor   Spring 2018
- MA 16500, Analytic Geometry and Calculus I, Recitation Instructor   Fall 2016

PROGRAMMING EXPERIANCE

- Proficient in Python, Perl and Macaulay2
- Coder for Purdue's Lon-Capa, a learning management assistant   Spring 2017–Fall 2017

SEMINAR AND CONFERENCE TALKS	• Residual Intersections of Determinantal Ideals of $2 \times n$ Matrices, AMS Spring Central Sectional Meeting, Virtual — March 2022
	• Residual Intersections of Determinantal Ideals of $2 \times n$ Matrices, Commutative Algebera Seminar, University of Michigan — February 2022
	• Residual intersections of Determinantal Ideals of $2 \times n$ Matrices, Joint Mathematics Meetings, Seattle — Canceled due to COVID
	• Residual Intersections of Determinantal Ideals of $2 \times n$ Matrices, AMS Fall Southeastern Sectional Meeting, Virtual — November 2021
	• Residual Intersections of Determinantal Ideals of $2 \times n$ Matrices, Commutative Algebera Seminar, Purdue — November 2021
	• Residual Intersections of Determinantal Ideals of $2 \times n$ Matrices, Algebraic Geometry/Commutative Algebra Seminar, Notre Dame — October 2021
	• Residual Intersections of Determinantal Ideals of $2 \times n$ Matrices, Commutative and Homological Algebra Market Presentations, Virtual — October 2021
	• Generators of Residual Intersections, AMS Spring Western Sectional, Virtual — May 2021
	• Generators of Residual Intersections, AMS Central Sectional Meeting, Virtual — April 2021
	• Generating Residual Intersections, Commutative Algebra Seminar, UCR — May 2020
	• Residual Intersections, AMS Spring Central Sectional Meeting — Canceled due to COVID
	• Generating Residual Intersections, Commutative Algebra Seminar, Purdue — February 2020
	• Intro to Spectral Sequences, Student Commutative Algebra Seminar, Purdue — February 2019
	• On Linear Weingarten Surfaces, MAA Southern California-Nevada Fall Section Meeting, Pomona College — November 2014

CONFERENCES AND WORKSHOPS ATTENDED	• AMS Spring Central Sectional Meeting, Purdue — March 2022
	• AMS Fall Southeastern Sectional Meeting, Virtual — November 2021
	• AMS Spring Western Sectional, Virtual — May 2021
	• AMS Central Sectional Meeting, Virtual — April 2021
	• Free Resolutions and Representation Theory, ICERM (virtual) — August 2020
	• AMS Spring Central Sectional Meeting, Purdue — Canceled due to COVID
	• AMS Fall Central Sectional Meeting, University of Wisconsin-Madison — September 2019
	• Thematic Program in Commutative Algebra and its Interaction with Algebraic Geometry, Notre Dame — June 2019
	• Graduate Workshop in Commutative Algebra for Women & Mathematicians of Other Minority Genders, University of Minnesota — April 2019
	• AMS Fall Central Sectional Meeting, University of Michigan — October 2018
	• Algebraic Geometry and its Broader Implications, University of Illinois Chicago — March 2018
	• Field of Dream Conference, St. Louis — November 2016
	• MAA Southern California-Nevada Fall Section Meeting, Pomona — November 2014

REFERENCES

Bernd Ulrich (advisor)
Purdue University
E-mail: ulrich@math.purdue.edu

Linquan Ma
Purdue University
E-mail: ma326@purdue.edu

David Eisenbud
University of California, Berkeley
E-mail: de@math.berkeley.edu

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Dominic Naughton (teaching)
Purdue University
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