$\begin{array}{l} \textbf{Emily Rudman} \\ \textbf{https://emilywaltherrudman.weebly.com} \end{array}$ Email : rudman.21@osu.edu Mobile: 724-344-8371

Apr. 2024

ACADEMIC POSITIONS

TOADEMIC TOSTTONS	
• The Ohio State University • Ross Visiting Assistant Professor of Mathematics	Columbus, OH August. 2021 - Present
The Ohio State University	Columbus, OH
Post-Doctoral Scholar with Sanjeevi Krishnan: AFOSR Grant FA9550-16-1-0212	Sept. 2020 - Aug. 2021
EDUCATION	
Indiana University	Bloomington, IN
• PhD in Mathematics advised by Ayelet Lindenstrauss	Aug. 2014 - Sept. 2020
Indiana University	Bloomington, IN
• Master of Science in Applied Statistics	Aug. 2016 - Dec. 2018
Indiana University	Bloomington, IN
• Master of Arts in Mathematics	Aug. 2014 - May 2016
Westminster College	New Wilmington, PA
Bachelor of Science in Mathematics	Aug. 2010 – Dec. 2013
TEACHING EXPERIENCE AT THE OHIO STATE UNIVERSITY	
• Instructor, Math 1116 Online: Excursions in Math	Summer 2024
• Instructor of 3 sections, Math 1116: Excursions in Math	Spring 2024
• Instructor of 2 sections, Math 1172: Engineering Mathematics A	Spring 2023
• Instructor of 2 sections, Math 1116: Excursions in Math	Fall 2022
• Instructor, Math 1149: Trigonometry	Summer 2022
• Instructor of 3 sections, Math 2153: Calculus III	Spring 2022
TEACHING, ASSISTING, GRADING, AND RECITATION EXPERIENCE AT INDI	ANA UNIVERSITY
• Co-teacher Online, M106: The Mathematics of Decision and Beauty	Summer 2020
• Recitation Leader, M212: Calculus II	Spring 2020
• Help Session Co-Leader, M301/M311: Linear Algebra and Calculus III	Spring 2020
• Grader, M584: Recursion Theory	Fall 2019
• Grader, M301: Linear Algebra and Applications	Fall 2019
• Assistant, M118: Finite Mathematics	Fall 2018
• Recitation Leader, M212: Calculus II	Fall 2018
• Instructor, M118: Finite Mathematics	Summer 2018
• Mentor, Directed Reading Program: Cryptography	Spring 2018
• Instructor, D116: Introduction to Finite Mathematics I	Spring 2018
• Instructor, D117: Introduction to Finite Mathematics II	Fall 201'
• Instructor, J112: Introduction to College Mathematics II	Summer 201'
• Instructor, D116: Introduction to Finite Mathematics I	Summer 201
• Instructor, B116. Introduction to I line Wathematics I	
• Assistant, M118: Finite Mathematics	Spring 201'
	Spring 201 Fall 201
• Assistant, M118: Finite Mathematics	Spring 201' Fall 2010 Fall 2010
 Assistant, M118: Finite Mathematics Assistant, D117: Introduction to Finite Mathematics II 	Spring 201' Fall 2010 Fall 2010 Summer 2010
 Assistant, M118: Finite Mathematics Assistant, D117: Introduction to Finite Mathematics II Instructor, J111: Introduction to College Mathematics I 	Spring 201' Fall 2010 Fall 2010 Summer 2010 Spring 2010
 Assistant, M118: Finite Mathematics Assistant, D117: Introduction to Finite Mathematics II Instructor, J111: Introduction to College Mathematics I Instructor, D116: Introduction to Finite Mathematics I 	Summer 201 Spring 201 Fall 2016 Fall 2016 Summer 2016 Spring 2016 Fall 2015 Summer 2016

PUBLICATIONS

- 1. Emily Rudman. The cyclic homology of $k[x_1, x_2, \dots, x_d]/(x_1, x_2, \dots, x_d)^2$. Communications in Algebra, 50(10):4356-4378, 2022
- 2. Małgorzata E. Ćavar, Emily M. Rudman, and Antonio Oštarić. Temporal versus spectral cues in 12 perception of vowels: A study with polish and croatian learners of english. Journal of Slavic Linguistics, 30(1):85-107, 2022
- 3. Malgorzata E Ćavar, Emily M Rudman, and Steven M Lulich. Palatalization in coronal consonants of polish: A three-four-dimensional ultrasound study. The Journal of the Acoustical Society of America, 148(6):EL447, December 2020

Preprints A convenient category of cubes submitted joint work with Sanjeevi Krishnan High central vowels in Polish, Ukrainian and Russian submitted joint work with Malgorzata Ćavar, Neha Nagara, and Lily Peters Russian sibilants in the production of American L2 learners in preparation joint work with Malgorzata Cavar and Jane Hacking INVITED TALKS Ohio MAA Spring Sectional Meeting An Introduction to Lean AMS Special Session on Commutative Algebra, Brown University Zoom Towards a Dold-Kan correspondence for semigroups March 20-21, 2021 Algebra Seminar, University of Manchester Zoom The cyclic homology of $k[x_1,\ldots,x_d]/(x_1,\ldots,x_d)^2$

Topology Seminar, University of Nevada Reno

The cyclic homology of $k[x_1,\ldots,x_d]/(x_1,\ldots,x_d)^2$

Topology Seminar, University of Kentucky and Vanderbilt University The cyclic homology of $k[x_1, \ldots, x_d]/(x_1, \ldots, x_d)^2$

AMS Special Session on Homological Methods in Algebra, Penn State

The Ohio State University Homotopy Theory Seminar

The cyclic homology of $k[x_1, \ldots, x_d]/(x_1, \ldots, x_d)^2$

The cyclic homology of $k[x_1,\ldots,x_d]/(x_1,\ldots,x_d)^2$

Ashland, OH

April 6, 2024

December 15, 2020

Zoom

December 4, 2020

Zoom

October 15, 2020

Zoom

October 4, 2020

Columbus, OH

November 14, 2019

Contributed Talks

The Ohio State University Semigroup Seminar Zoom Lattices and Prime Ideals of Arbitrary Finite Monoids February 11, 2021

The Ohio State University Semigroup Seminar

Class Functions and Generalized Conjugacy Classes for Monoids

Indiana University Machine Learning Seminar Support Vector Machines

Rose-Hulman Math Seminar

An introduction to topology

Zoom November 5, 2020

April 2, 2020

Terre Haute, IN

October 30, 2019

Zoom

AMS Special Session on Commutative Algebra

Binghamton, NY October 12 - October 13, 2019

The cyclic homology of $k[x_1, \ldots, x_d]/(x_1, \ldots, x_d)^2$

Joint Mathematics Meetings

Prime Factorization of Kászonyi Numbers: joint work with Ariana Cappon

Baltimore, MD January 15 - January 18, 2014

Indiana Undergraduate Research Conference

Prime Factorization of Kászonyi Numbers: joint work with Ariana Cappon

Bloomington, IN July 23, 2013

Pi Mu Epsilon Undergraduate Research Conference

Properties of Simple, Cubic Graphs that Contain Three Unique Hamiltonian Circuits

Youngstown, OH February 23, 2013

3.6 1: 3371

MathFest

Lollipops and Their Pebbling Numbers

Madison, WI
August 2 - August 4, 2012

AWARDS

- 2019-20 IU Glenn Schober Memorial Travel Award: to attend the JMM
- 2019-20 IU Provost's Travel Award for Women in Science: to attend the JMM in Denver
- 2019 AMS Travel Grant Award: to attend the AMS sectional meeting in Binghamton, NY
- 2018-19 IU Provost's Travel Award for Women in Science: to attend the 2018 European Talbot Workshop
- 2017-18 IU Glenn Schober Memorial Travel Award: to attend a Midwest Topology Conference in Northwestern
- 2017-18 IU Provost's Travel Award for Women in Science: to attend the AMS sectional meeting in Vanderbilt
- 2017-18 IU Provost's Travel Award for Women in Science: to attend a Women in Topology conference in MSRI
- 2016-17 IU Rothrock Teaching Award: for recognition of Excellence in Teaching Mathematics

SELECTED PROFESSIONAL DEVELOPMENT

A	MS MRC				West Gr	eenwich,	RI
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Combinatorial Applications of Computational Geometry and Algebraic Topology

May 30 - June 5, 2021

Shanks Workshop on Homotopy Theory

Vanderbilt University

Nashville, TN
April 13 - April 14, 2019

Workshop on Functor Calculus

The Ohio State University

Columbus, OH

March 16 - March 17, 2019

European Talbot Workshop

Free Loop Spaces with Nathalie Wahl and Alexandru Oancea

Fischbach bei Dahn, Germany July 29 - August 4, 2018

Berkeley, CA

Mathematical Sciences Research Institute

November 29 - December 1, 2017

OUTREACH AND SERVICE

Women in Topology

• The Ross Mathematics Program: Gave an introduction to topology talk, Ohio Dominican University June 20, 2022

• IU Graduate Student Peer Mentorship Program Co-Founder: at Indiana University

Summer 2020

• Co-Organizer of Graduate Student Topology and Geometry Conference: at Indiana University

Spring 2020

• Indiana Statistical Consulting Center: Consultant

Fall 2018

• Indiana University Science Fest: Volunteer

Oct. 24, 2015