Nick Rekuski

Department of Mathematics, Wayne State University Email: rekuski@wayne.edu Website: rekuski.wayne.edu Mailing Address: 1261 FAB - 656 W Kirby St - Detroit, MI 48202 - USA

Employment

Wayne State University - Detroit, Michigan Postdoctoral Researcher	Aug. 2022 - Present
Education	
Michigan State University - East Lansing, Michigan Ph.D. in Mathematics Advisor: Rajesh Kulkarni St. Olaf College - Northfield, Minnesota	Aug. 2016 - Aug. 2022
B.A. in Mathematics with Distinction	Sept. 2012 - May. 2016
Research	
 Research Interests Algebraic Geometry, Derived Categories, Moduli of Stable Bundles, Stabili Publications/Preprints Algebraic Geometry Compactifying the space of stability conditions with C. Dare, B. Farman, Peng, L. Pertusi, X. Qin, F. Rota, In preparation 	
Elliptic curves and their principal homogeneous spaces: splitting Severi-Bray Submitted arXiv:2401.10493 (2024)	uer varieties with E. Mackall,
Contractibility of the geometric stability manifold on a surface, $arXiv:2310$	0.10499 (2023)
Stability of kernel sheaves on del Pezzo surfaces, Submitted, arXiv:2305.1	16306 (2023)
Stability of kernel sheaves associated to rank one torsion-free sheaves, Su (2023)	abmitted, arXiv:2303.13459
 Wall-crossing for tilt stability, Ph.D. Thesis, Michigan State University (20) Mathematical Physics Effective rationality for local unitary invariants of mixed states of two of Chernyak, J. Klein. Submitted, arXiv:2305.16178 (2023) 	,
Rational local unitary invariants of symmetrically mixed states of two q Chernyak, and J. Klein, Adv. in Appl. Math 153 (2024), Paper No. 102 Invited Talks	
Academica Sinica Algebraic Geometry Seminar	Feb. 2024
AMS Spring Central Sectional Meeting. University of Cincinnati Special Session on Brauer Groups in Algebraic Geometry and Arithmetic	c Apr. 2023
Michigan Algebraic Geometry Symposium. University of Michigan	Mar. 2023
Wayne State University Algebra Seminar	Apr. 2022
Honors	
Michigan State University Dissertation Completion Fellowship	Fall 2021
Michigan State University Dissertation Continuation Fellowship	Spring 2020

Workshops/Schools Attended FRG Workshop on Brauer groups and derived categories	
Northwestern University	Oct. 2023
School on $K3$ surfaces, hyperkähler manifolds, and cubic fourfolds Hausdorff Research Institute for Mathematics	Sep. 2023
AMS Math Research Community in Derived Categories	Jun. 2023
MSRI Summer School in Commutative Algebra and its Applications to A Notre Dame	Algebraic Geometry Jun. 2019
Teaching	
Teaching Experience	
Wayne State University	
Informal Reading Course in Commutative Algebra Michigan State University	Fall 2022
MTH 133: Calculus II (Lead Recitation Instructor)	Spring 2022
MTH 234: Multivariable Calculus (Instructor of Record)	Summer 2021
MTH 309: Linear Algebra (Recitation Instructor)	Fall 2020
MTH 299: Introduction to Proof (Instructor of Record)	Summer 2020
MTH 103A: College Algebra I (Instructor of Record)	Spring 2020
MTH 299: Introduction to Proof (Instructor of Record)	Fall 2019
MTH 132: Calculus I (Recitation Instructor)	Summer 2019
MTH 299: Introduction to Proof (Recitation Instructor)	Spring 2019
MTH 101: Quantitative Literacy I (Lead Recitation Instructor)	Fall 2018
MTH 101: Quantitative Literacy I (Instructor of Record)	Summer 2018
MTH 101: Quantitative Literacy I (Lead Recitation Instructor)	Spring 2018
MTH 124: Business Calculus (Instructor of Record)	Fall 2017
MTH 132: Calculus I (Instructor of Record) St. Olaf College	Summer 2017
MATH 220: Linear Algebra (Teaching Assistant)	Spring 2016
MATH 120: Calculus I (Teaching Assistant)	Fall 2015
MATH 226: Multivariable Calculus (Teaching Assistant) Mentoring Experience Michigan State University	Spring 2015
College of Natural Sciences Digital Education Liaison	Spring 2020 - Summer 2021
Center for Instructional Mentoring Lead Instructor	Summer 2019, Summer 2020
Mock Teaching Facilitator for New Teachers	Summer 2018, Summer 2019
Lyman Brigss College Teaching Mentor	Fall 2017, Spring 2018
Talks	
National Numeracy Network Conference Michigan State University	Oct. 2018
Honors Michigan State University Excellence-in-Teaching Citation	Spring 2022
Michigan State University College of Natural Sciences Excellence-in-Teac	
#iteachmsu Educator Award	Summer 2021
Michigan State University Department of Mathematics Excellence in Tea	

Professional Development	
Supplemental Diversity, Equity, and Inclusion Training	May. 2021
Summer Online Instruction Readiness for Educational Excellence	Jun. 2020
Certification in College Teaching Workshop	May. 2018
Inclusion in Math and Advising Professional Learning Community	Apr. 2018
Service	
Conference Organization	
AMS Spring Central Sectional Meeting, University of Wisconsin - Milwaukee	e e e e e e e e e e e e e e e e e e e
Co-organizer: Special Session on Ramification in Algebraic and Arithmetic	c Geometry Apr. 2024
Seminar Organization	
Wayne State University	
Geometric Invariant Theory Learning Seminar	Fall 2022
Michigan State University	
Student Algebraic Geometry	Spring 2020 - Spring 2022
Student Algebra	Fall 2019 - Spring 2020
Brauer Groups Learning Seminar	Spring 2019
Derived Categories Learning Seminar	Spring 2018
Dissertation Committee Member	
Wayne State University	
Diego Yepez	Spring 2024