Nick Rekuski

Department of Mathematics, The University of Liverpool

Email: rekuski@liverpool.ac.uk · *Website:* pcwww.liv.ac.uk/~rekuski

 $\textit{Mailing Address: University of Liverpool} \cdot \text{Mathematical Sciences Building} \cdot \text{Liverpool} \cdot \text{L69 7ZL} \cdot \text{UK}$

Employment	
 The University of Liverpool - Liverpool, United Kingdom Postdoctoral Research Associate Wayne State University - Detroit, Michigan Postdoctoral Researcher 	Apr. 2024 - Present Aug. 2022 - Apr. 2024
Education	
 Michigan State University - East Lansing, Michigan Ph.D. in Mathematics Advisor: Rajesh Kulkarni St. Olaf College - Northfield, Minnesota B.A. in Mathematics with Distinction 	Aug. 2016 - Aug. 2022 Sept. 2012 - May. 2016
Research	20pt 2022 2020 2020
Research Interests Algebraic Geometry, Derived Categories, Stability Conditions, Moduli of Stab Publications/Preprints Algebraic Geometry <i>Elliptic curves and their principal homogeneous spaces: splitting Severi-Brauer</i> Submitted, arXiv:2401.10493 (2024)	
Contractibility of the geometric stability manifold on a surface, arXiv:2310.1	0499 (2023)
Stability of kernel sheaves on del Pezzo surfaces, Submitted, arXiv:2305.163	06 (2023)
Stability of kernel sheaves associated to rank one torsion-free sheaves, Math. Z	. 307 (2024), Paper No. 2
 Wall-crossing for tilt stability, Ph.D. Thesis, Michigan State University (2022) Mathematical Physics Effective rationality for local unitary invariants of mixed states of two qub Chernyak, J. Klein. J. Phys. A: Math. Theor. 57 (2024), Paper No. 14530. 	its with L. Candelori, V.
Rational local unitary invariants of symmetrically mixed states of two qube Chernyak, and J. Klein, Adv. in Appl. Math 153 (2024), Paper No. 102613 Invited Talks Illinois State University Pure and Applied Mathematics Seminar	its with L. Candelori, V.
Academica Sinica Algebraic Geometry Seminar	Feb. 2024
University of Arizona Algebraic Geometry Seminar	Feb. 2024
AMS Spring Central Sectional Meeting. University of Cincinnati Special Session on Brauer Groups in Algebraic Geometry and Arithmetic	Apr. 2023
Michigan Algebraic Geometry Symposium. University of Michigan	Mar. 2023
Wayne State University Algebra Seminar	Apr. 2022
Teaching	

Wayne State University

Reading Course in Commutative Algebra

Michigan State University	
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)	Summer 2017
St. Olaf College	G . L
MATH 220: Linear Algebra (Teaching Assistant)	Spring 2016
MATH 120: Calculus I (Teaching Assistant)	Fall 2015
MATH 226: Multivariable Calculus (Teaching Assistant) Mentoring Experience	Spring 2015
Michigan State University	
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	Q
Michigan State University Excellence-in-Teaching Citation	Spring 2022
Michigan State University College of Natural Sciences Excellence-in-Teach	ů.
#iteachmsu Educator Award	Summer 2021
Michigan State University Department of Mathematics Excellence in Teac Professional Development	ching Award Spring 2018
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 - Milwau Co-organizer: Special Session on Ramification in Algebraic and Arithm Seminar Organization	
Wayne State University	
Geometric Invariant Theory Learning Seminar	Fall 2022

Michigan State University Student Algebraic Geometry Student Algebra Brauer Groups Learning Seminar Derived Categories Learning Seminar **Degree Committee Member** Wayne State University Diego Yepez (PhD)

Ash Ayesh (Masters)

Spring 2020 - Spring 2022 Fall 2019 - Spring 2020 Spring 2019 Spring 2018

> Spring 2024 Summer 2023

Updated May 10, 2024