

Curriculum Vitae

Shaver Phagan
Assistant Professor of Mathematics
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Education

University of Tennessee, Knoxville. B.S. in Mathematics (Summa Cum Laude), May 2019
Higher School of Economics, Moscow, Russia. Math in Moscow, Spring 2019
Purdue University, West Lafayette. Ph.D. in Mathematics, August 2025

Research

1. *Corresponding Abelian Extensions of Integrally Equivalent Number Fields*, [J. Number Theory](#), [arXiv](#)
2. *Constructive Proof of Two Characterizations of Arithmetic Equivalence*, submitted, [arXiv](#)
3. *Exceptional Primes in Notions of Arithmetic Similarity*, in revision
4. *Spectral and Geometric L-functions as Moduli* (joint with Ben McReynolds and James Reber), in progress

Talks

1. *Strong Multiplicity One for Dedekind Zeta and Goss Zeta*. University of Tennessee, Knoxville, Algebra Seminar, November 2025
2. *A Group Theoretic Approach to Strong Multiplicity One for Dedekind Zeta*. Purdue, West Lafayette, PANTHA Seminar, August 2025
3. *(Co)restriction as the Natural Map in Manifold (Co)homology*. Purdue, West Lafayette, Topolodays Seminar, September 2024
4. *(Co)homology and Abelian Covers of Integrally Equivalent Manifolds*. Purdue, West Lafayette, Geometry and Geometric Analysis Seminar, September 2024
5. *Odd K-Groups and Class Field Theory of Integrally Equivalent Number Fields*. Purdue, West Lafayette, Automorphic Forms Seminar, April 2024
6. *Class Field Theory and Linear Algebraic Groups*. Purdue, West Lafayette, Student Colloquium, December 2022

Mentorship

1. *Purdue Experimental Math Lab*, Spring 2026. Lead an undergraduate research project developing a combinatorial description of the kernel of the Burnside morphism for finite abelian groups.
2. *Purdue Experimental Math Lab*, Spring 2025. Assistant to Dr. Nick McCleerey, mentored undergraduate students studying eigenvalues of the Monge-Ampere equation using numerical methods.
3. *MATH 490*, Fall 2021. Assistant to Ben McReynolds in a first course in group theory for undergraduates, with an emphasis on problem solving and geometric applications.

Service

- Reviewer for MathSciNet

Awards

2024-2025 Carl C. Cowan Jr. Scholarship, Purdue University
2024 Excellence in Teaching Award, Purdue University

Conferences and Workshops Attended

RTG Workshop in Arithmetic Statistics, Summer 2025, The Ohio State University
CMND Topology and Algebraic Geometry Workshop, Summer 2025, Notre Dame
Groups, Geometry, and Dynamics Workshop, Spring 2025, Purdue
Bloomington Geometry Workshop, Spring 2024, IU Bloomington
Redbud Topology Conference, Spring 2023, University of Oklahoma
Geometry, Arithmetic, and Groups, Summer 2022, University of Texas Austin

Teaching Experience (all at Purdue)

MA 26500 Linear Algebra, Spring 2026
MA 26500 Linear Algebra, Fall 2025
MA 26100 Multivariate Calculus, Spring 2025
MA 15555 Quantitative Reasoning, Fall 2024
MA 16010 Applied Calc. I, Fall 2023
MA 26200 Linear Algebra and Differential Equations, Spring 2023
MA 16010 Applied Calc. I, Fall 2022
MA 26100 Multivariate Calculus, Spring 2022
MA 26100 Multivariate Calculus, Fall 2021
MA 16100 Plane Analytic Geometry and Calc. I, Fall 2020
MA 16600 Analytic Geometry and Calc. II, Spring 2020