

LEWIS DOMINGUEZ

AUGUST 18, 2023

Department of Mathematics
University of Kentucky
Lexington, KY 40506

Phone: 937-546-4263
Website: <https://www.ms.uky.edu/~ltdo224/>
E-mail: Lewis.Dominguez@uky.edu

ACADEMIC POSITIONS

University of Kentucky, Lexington, KY

- Graduate Teaching Assistant 2018-Present

EDUCATION

University of Kentucky, Lexington, KY

- Mathematics, M.A. Dec. 2020

Indiana University of Pennsylvania, Indiana, PA

- Mathematics, B.S. Aug. 2018

MATHEMATICAL RESEARCH: INTERESTS AND PUBLICATIONS

Research Interests

- My major work focuses on Adams operations and power operations with respect to the Burnside ring for finite groups and to prove the Adams operation factors through the power operation.

INVITED TALKS AND WORKSHOPS

Talks:

- A Novel Functor from Commutative Rings to Categories, Morehead University Undergraduate Seminar Mar. 2023

CONTRIBUTED RESEARCH TALKS AND WORKSHOPS

Talks:

- Introductions to λ -rings and a concrete formula for the Burnside Ring, UKY Topology Seminar, Sep. 2022
- Commutative Rings Associated to Groups and their relations, UKY Topology Seminar, Jan. 2022
- Adams Operations & Power Operations on the Burnside Ring, UKY Topology Seminar Sep. 2021
- A Power Operation on the Table of Marks, UKY Topology Seminar, Nov. 2020
- Representations of Real Numbers using a Finite Sum of Elements From An Open Set, Youngstown University, Feb. 2018

SERVICE

- UKY Mathematics Department Graduate Student Council Co-Chair 2023-Present
- UKY Graduate Student Peer Mentor 2018-Present
- UKY First Year Graduate Student Seminar Leader Fall 2023
- UKY MathLab Summer Undergraduate Research Organizer 2022

AWARDS

- Arts and Sciences Outstanding Teaching Assistant Award 2023
- Wimberly C. Royster Outstanding Teaching Assistant Award 2022

TEACHING EXPERIENCE

Primary Instructor: Present course material, facilitate discussion, construct and administer assessments, determine student grades

- University of Kentucky
 - MA 111 Contemporary Mathematics
 - MA 241 Geometry for Middle School Teachers

Advanced Instruction: Specialized assignments outside of traditional course scheduling

- University of Kentucky
 - MA 109 College Algebra with Co-requisite Support - Includes an additional two contact hours each week, and makes use of standards based grading
 - MA 113 Calculus I Math Excel (Recitation Leader) - Includes an additional recitation with worksheets tailored to current student needs

Recitation Leader: Lead students in completing worksheets, assist with homework questions, and foster discussion regarding prior lectures

- University of Kentucky
 - MA 110 - Pre-Calculus
 - MA 113 - Calculus I
 - MA 123 - Elementary Calculus
 - MA 213 - Calculus III