RYAN J. ROGERS

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EDUCATION

University of Kentucky, Lexington, KY, USA

Ph.D. Mathematics Dec. 2023 (Expected)

• Advisor: David C. Royster

M.A. Mathematics May 2021

• Advisor: Peter D. Hislop

• Oral Exam Topic: Honeycomb Schrödinger Operators in the Tight-Binding Model

University of Cincinnati, Cincinnati, OH, USA

B.S. Mathematics (Minor: Spanish)

Dec. 2017

- Summa Cum Laude (Cumulative GPA: 4.000/4.000)
- Capstone Project in Mathematics: From Euclidean Spaces to Metric Spaces
 - Advisor for Capstone Project in Mathematics: Ning Zhong

RESEARCH INTERESTS

Mathematics Education, Analysis, Partial Differential Equations

Publication

(1) Rogers R. J., Zhong, N. (2019). From Euclidean Spaces to Metric Spaces. *Journal of Student Research*, 8(1), 14-17.

Presented Talks

- "The Impact of an Introductory Real Analysis Course on Undergraduate Students' Understanding of Function Continuity (Ph.D. Qualifying Exam)," University of Kentucky, Summer 2022
- "Honeycomb Schrödinger Operators in the Tight-Binding Model (Defense for Master of Arts)," University of Kentucky, Spring 2021
- "Homogenization of the Heat Equation," University of Kentucky, Spring 2021
- "Fourier Analysis and the Gauss Circle Problem," University of Kentucky, Fall 2019

AWARDS AND SCHOLARSHIPS

Teaching Assistantship, University of Kentucky

Robert Patterson McKibbin Prize, University of Cincinnati

Helen Weinberger Phi Beta Kappa Award, University of Cincinnati

Cincinnatus Century Scholarship, University of Cincinnati

Darwin T. Turner Scholarship, University of Cincinnati

Aug. 2014 - Dec. 2017

Aug. 2014 - Dec. 2017

TEACHING EXPERIENCE

University of Kentucky - Teaching Assistant

Aug. 2018 - Present

• Recitation Instructor	
– MA 113: Calculus I	Fall 2018
 MA 110: Algebra and Trigonometry for Calculus 	Spring 2019
 MA 110: Algebra and Trigonometry for Calculus 	Fall 2019
 MA 123: Elementary Calculus and its Applications 	Spring 2020
– MA 213: Calculus III	Fall 2020
– MA 213: Calculus III	Spring 2021
 MA 110: Algebra and Trigonometry for Calculus 	Fall 2021
- FTK 113/137: FastTrack to Calculus	Summer 2022
 MA 123: Elementary Calculus and its Applications 	Spring 2023
* Lead TA	
• Primary Instructor	
– MA 193: Calculus I Workshop	Fall 2018
– MA 123: Elementary Calculus and its Applications	Summer 2020
 MA 123: Elementary Calculus and its Applications 	Summer 2021
– MA 202: Mathematical Problem Solving for Elementary	Teachers Spring 2022
 MA 123: Elementary Calculus and its Applications 	Summer 2022
- MA 201: Mathematics for Elementary Teachers	Fall 2022
University of Cincinnati - Math and Science Support Cente	r Jan. 2016 - Apr. 2017
• Supplemental Review Session Leader	
- MATH 1062: Calculus II	Spring 2016
- MATH 1061: Calculus I	Spring 2017
Other Applicable Experience	
• Mathnasium of Hyde Park - Mathnasium Instructor	May 2018 - Aug. 2019
• The Knowledge Roundtable– Mathematics Tutor	Mar. 2018 - Apr. 2018
SERVICE AND OUTREACH	
• Working Group Member, University of Kentucky EEIJM	IS Jan. 2023 - Present
• Graduate Student Mentor, University of Kentucky	Aug. 2022 - May 2023
• Secretary, University of Kentucky Chapter of Spectra	Aug. 2022 - May 2023
• Chief Financial Officer, Love Peace And Charity	Dec. 2017 - Present
• Mathematics Tutor, Purcell Marian High School	Apr. 2018 - May 2018
• Mentor, College Mentors for Kids	Jan. 2015 - Dec. 2016
AFFILIATIONS	

- American Mathematical Society
- Mathematical Association of America
- Society for Industrial and Applied Mathematics
- The Phi Beta Kappa Society
- Spectra
- The National Society of Collegiate Scholars
- Alpha Lambda Delta National First-Year Honor Society