

JUSTIN BARHITE

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EDUCATION

- 2017–present **University of Kentucky**, Lexington, KY
Ph.D. Mathematics (expected May 2023)
M.A. Mathematics (May 2019)
- 2013–2017 **Carthage College**, Kenosha, WI
B.A. Mathematics and Physics, *summa cum laude* (May 2017)

INVITED TALKS

- April 2022 *Generalized Characters and Bicategorical (Co)traces*, University of Virginia Topology Seminar
- March 2022 *Bicategorical Traces and Cotraces*, AMS Spring Southeastern Sectional Meeting (canceled)
- February 2022 *Bicategorical Traces and Cotraces*, Monthly Meeting, NSF FRG on Trace Methods and Cut-and-Paste K-Theory (online)

CONTRIBUTED TALKS

- September 2022 *Multiplicativity of Trace in Representation Theory*, University of Kentucky Graduate Student Colloquium
- March 2022 *Traces and Fixed Points*, University of Kentucky Topology Seminar
- December 2021 *Bicategorical Traces and Cotraces*, University of Kentucky Topology Seminar
- February 2021 *String Diagrams for Closed Bicatagories*, University of Kentucky Topology Seminar
- February 2021 *Proof by Picture*, University of Kentucky Graduate Student Colloquium
- November 2020 *The Hairy Ball Theorem*, University of Kentucky Graduate Student Colloquium
- September 2020 *Bicategorical Traces and Cotraces*, University of Kentucky Topology Seminar
- April 2020 *String Diagrams and Traces*, University of Kentucky Graduate Student Colloquium
- March 2020 *Morita Equivalence and Traces*, University of Kentucky Topology Seminar
- February 2020 *Hochschild Homology and Cyclic Homology*, Electronic Computational Homotopy Theory Reading Seminar
- November 2019 *Traces and Cotraces via Hochschild Homology*, University of Kentucky Topology Seminar
- September 2019 *Abstract Nonsense*, University of Kentucky Graduate Student Colloquium
- April 2018 *Dualizability and Trace in Symmetric Monoidal Categories*, University of Kentucky Topology Seminar
- March 2018 *Two Spheres Are Better Than One*, University of Kentucky Graduate Student Colloquium
- October 2017 *Riemann-Like, Super-Lebesgue*, University of Kentucky Graduate Student Colloquium

- November 2016 *Classifying the Order 4 Magic Squares (with Mike Leazer)*, Pi Mu Epsilon Regional Conference, St. Norbert College
- November 2015 *They See Me Rollin': An Analysis of the Game Tenzi*, Pi Mu Epsilon Regional Conference, St. Norbert College

AWARDS

- 2022 Provost's Award for Outstanding Teaching (UKY)
Awarded annually to 3-4 TAs across the University
- 2021 Summer Research Fellowship, Mathematics Department (UKY)
- 2021 Certificate of Outstanding Teaching, College of Arts & Sciences (UKY)
Awarded annually to 15 TAs across the College of Arts & Sciences
- 2017–2020 Max Steckler Fellowship, Mathematics Department (UKY)

TEACHING

Instructor of Record

- Spring 2022 MA 111 Introduction to Contemporary Mathematics
- Fall 2021 MA 111 Introduction to Contemporary Mathematics
- Spring 2021 MA 310 Mathematical Problem Solving for Teachers
- Fall 2020 MA 241 Geometry for Middle School Teachers
- Spring 2019 MA 202 Math for Elementary Teachers
- Fall 2018 MA 109 College Algebra
- Summer 2018 MA 213 Calculus III

Recitation Leader

- Spring 2023 MA 110 Algebra and Trigonometry for Calculus
- Fall 2022 MA 110 Algebra and Trigonometry for Calculus
- Spring 2020 MA 114 Calculus II (MathExcel*)
- Fall 2019 MA 113 Calculus I (MathExcel*)
- Spring 2018 MA 113 Calculus I
- Fall 2017 MA 110 Algebra and Trigonometry for Calculus

**Students in MathExcel sections spend extra time in recitation each week, working on problems in small groups with assistance from the TA and undergraduate assistants.*

SERVICE

- 2021–present **Member**, University of Kentucky Working Group on Ethics, Equity, Inclusion, and Justice in the Mathematical Sciences
- 2018–present **Peer mentor**, Mathematics Graduate Mentoring Program
- August 2022 **Panelist**, Graduate Student Panel on Research and Study
- Fall 2021 **Member**, Mathematics Department Chair Search Committee
- August 2021 **Co-facilitator**, Inclusive Syllabus Review Workshop
- 2021 **Session leader**, Preliminary Exam Coaching, Topology
- 2020–2021 **Co-chair**, Math Department Graduate Student Council
- Spring 2019 **Coordinator**, Graduate Student Colloquium
- Fall 2018 **Co-coordinator**, Graduate Student Colloquium

CONFERENCES AND WORKSHOPS ATTENDED

August 2022 Collaborative Workshop in Homotopy Theory (University of Virginia)
July 2022 Homotopical Methods in Fixed Point Theory Workshop (CU Boulder)
June 2022 The Grading Conference (virtual)
November 2021 Midwest Topology Seminar (virtual)
April 2021 Graduate Student Topology and Geometry Conference (virtual)
April 2021 Midwest Topology Seminar (virtual)
October 2020 Midwest Topology Seminar (virtual)
May 2020 Midwest Topology Seminar (virtual)
October 2019 Midwest Topology Seminar (University of Chicago)
September 2019 AMS Fall Central Sectional Meeting (UW-Madison)
April 2019 Shanks Workshop on Homotopy Theory (Vanderbilt)
March 2019 Graduate Student Topology and Geometry Conference (UIUC)
February 2019 Midwest Topology Seminar (UIUC)
September 2018 Midwest Topology Seminar (University of Kentucky)

REFERENCES

Kate Ponto (advisor), University of Kentucky, kate.ponto@uky.edu
Inbar Klang, Columbia University, klang@math.columbia.edu
Cary Malkiewich, Binghamton University, malkiewich@math.binghamton.edu
Brad Elliott (teaching), University of Kentucky, bradley.elliott@uky.edu
erica Whitaker (teaching), University of Kentucky, ewhitaker@uky.edu