

Katherine Paullin

Curriculum Vitæ

Department of Mathematics
University of Kentucky
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EDUCATION

Ph.D. in Mathematics (May 2015)
Saint Louis University
Advisor: David Letscher
Dissertation Title: “Spun Almost Normal Form”

M.S. in Mathematics (May 2009)
Illinois State University
Advisor: Olcay Akman
Thesis Title: “Mary Had A Little Lamb: Using Genetic Algorithms to Create Music”

B.A. in Mathematics (May 2007)
Illinois State Teacher Certification for Mathematics, grades 6-12
Monmouth College

PROFESSIONAL EXPERIENCE

Faculty Senior Lecturer **Fall 2022–present**
Mathematics Department, University of Kentucky *Lexington, KY*

Faculty Lecturer **Fall 2016–Spring 2022**
Mathematics Department, University of Kentucky *Lexington, KY*

Instructor **Summers 2015–2022**
FastTrack Program, University of Kentucky *Lexington, KY*

Mathematics BootCamp Instructor **Summer 2017**
Statistics Department, University of Kentucky *Lexington, KY*

Visiting Lecturer **Fall 2015–Spring 2016**
Mathematics Department, University of Kentucky *Lexington, KY*

Graduate Research Assistant **Fall 2013–Spring 2015**
Mathematics and Computer Science Department, Saint Louis University *St. Louis, MO*

Instructor, Math Team Leader <i>Billiken Bridge to Success Program, Saint Louis University</i>	Summers 2011–2014 <i>St. Louis, MO</i>
Graduate Teaching Assistant <i>Mathematics and Computer Science Department, Saint Louis University</i>	Fall 2009–Spring 2013 <i>St. Louis, MO</i>
Adjunct Instructor <i>Mathematics Department, Southwestern Illinois College</i>	Summers 2011–2013 <i>Belleville, IL</i>
Instructor <i>GRE Prep Course-Mathematics, McNair Scholars Program, Saint Louis University</i>	Summer 2012 <i>St. Louis, MO</i>
Graduate Assistant <i>University College-Developmental Math, Illinois State University</i>	Fall 2007–Spring 2009 <i>Normal, IL</i>
Student Teacher <i>Mathematics, Monmouth-Roseville High School</i>	Spring 2007 <i>Monmouth, IL</i>
Undergraduate Teaching Assistant <i>Mathematics Department, Monmouth College</i>	Fall 2006 <i>Monmouth, IL</i>

COURSES TAUGHT AS PRIMARY INSTRUCTOR

At University of Kentucky

- MA 109: College Algebra
- MA 110: Algebra and Trigonometry for Calculus
- MA 111: Contemporary Mathematics
- MA 113: Calculus I
- MA 123: Elementary Calculus and Its Applications
- MA 162: Finite Math (recitations)
- MA 310: Mathematical Problem Solving for High School Teachers
- MA 330: History of Math

At Saint Louis University

- MATH 120: College Algebra
- MATH 122: Finite Mathematics
- MATH 132: Survey of Calculus
- MATH 141: PreCalculus

At Southwestern Illinois College

- MATH 111: Liberal Arts Mathematics
 - MATH 112: College Algebra
 - MATH 114: Trigonometry
 - MATH 191/BUS 205: Introduction to Statistics/Economic and Business Statistics
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AWARDS AND HONORARIES

Research and Academic Honors

- 2015 Pi Mu Epsilon: National Mathematics Honor Society; Alpha Epsilon Lambda: National Graduate Student Honor Society
- 2007 Graduate Cum Laude; Honors Program Graduate
- 2006 Mortar Board; Kappa Delta Pi: National Education Honorary
- 2005 Blue Key
- 2004 National Society of Collegiate Scholars; Alpha Lambda Delta Honorary

Other Honors and Awards

- 2023 UK College of Arts and Sciences Faculty Peer Mentoring Award
 - 2017 MAA Project NExT Fellow, Blue '17 Cohort
 - 2015 John J. Andrews Service Award-SLU Mathematics Department
 - 2007 Alpha Xi Delta-Beta Epsilon Senior of the Year
 - 2006 President of Alpha Xi Delta-Beta Epsilon Chapter
 - 2005 Order of Omega: National Greek Honorary; Public Relations Vice President of Alpha Xi Delta-Beta Epsilon Chapter
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DEPARTMENTAL AND UNIVERSITY SERVICE

Departmental Committees

- Executive Committee, Lecturer Representative, University of Kentucky
 - 2016-2017, 2018-2019, 2019-2020, 2023-2024
- Lecturer Hiring Committee, University of Kentucky
 - 2016-2017, 2018-2019, 2021-2022, 2023-2024 (chair)
- Teaching Post Doctoral Scholar Hiring Committee, Member, University of Kentucky, Spring 2022
- Clicker Committee, Member, University of Kentucky, Spring 2016
- Planning Committee for Missouri MAA Section Meeting, Member, Saint Louis University, Spring 2014

Departmental Service

- Mathematics Teaching and Learning Seminar Organizer, University of Kentucky
 - Fall 2016-Spring 2019, Fall 2023-present
- TA Professional Development Coordinator, University of Kentucky
 - Fall 2016-Spring 2019, Fall 2023-present
- MA 109 Dual Credit Liaison
 - Fall 2024: University of Kentucky Next Generation Scholars program with Danville, Bardstown, STEAM Academy, Menifee County, Allen County Scottsville, and Greenup County High Schools
 - Fall 2023: University of Kentucky Next Generation Scholars program with Danville, Bardstown, Glasgow, Marshall County, and Menifee County High Schools
 - Fall 2022: University of Kentucky Next Generation Scholars program with Danville and Bardstown High Schools
 - Fall 2021: University of Kentucky Next Generation Scholars program with STEAM Academy and Bardstown High School
 - Fall 2020: University of Kentucky Next Generation Scholars program with STEAM Academy and Somerset High School
 - Spring 2017: University of Kentucky and STEAM Academy
- Online MA 109 Supervisor, University of Kentucky, Summers 2016, 2018-2024
- MA 109 College Algebra Course Coordinator, University of Kentucky, Fall 2019-Spring 2023
- Student Exam Committee member
 - David Thompson, Masters degree, November 2021
 - Lisa Mueller, Masters degree, October 2019
- MA 109 Dual Credit course planning with UK Next Generation Scholars program, Spring 2020
- MA 201/202 Mathematics for Elementary Teachers Course Coordinator, University of Kentucky, Spring 2019
- Volunteer, UK Math Day for Women, University of Kentucky, October 2016
- Assistant Course Coordinator for MA 123 Elementary Calculus, University of Kentucky, Spring 2016
- Coordinator of TA Observations, University of Kentucky, Fall 2015
- Mathematics Representative to Graduate Student Association, Saint Louis University, 2013-2014
- Graduate Student Volunteer, Mathematical Abundance Conference celebrating Professor Emeritus Charles Vanden Eynden's 72nd Birthday, Illinois State University, April 2008

College and University Service

- University Senate's Undergraduate Council, University of Kentucky, August 2024-present
- University of Kentucky's Kentucky Children's Hospital Parent Advisory Council, May 2021-present
- College of Arts & Sciences Educational Policy Committee member, University of Kentucky
 - Fall 2021-Spring 2024 (Committee Chair, Fall 2023)
 - Fall 2020-Spring 2021
- STEM Program Faculty, Secondary STEM Education program, University of Kentucky, Fall 2018-present
- Education Abroad Scholarship application review committee, University of Kentucky, Fall 2022-present
- Next Generation Scholars subcommittee on Guiding Dual Credit at UK, Fall 2021
- K-Week Volunteer, Pick Your Path session: Succeeding in a Large Lecture Classroom, University of Kentucky, Fall 2019
- Faculty Mentor and Volunteer, Expanding Your Horizons Conference of University of Kentucky, Spring 2018 & 2019
- Graduate Student Volunteer, Expanding Your Horizons Conference of St. Louis, March 2014 and 2015
- Student Evaluator for Postdoc Fellow Search, Reinert Center for Transformative Teaching and Learning, Saint Louis University, April 2014
- Member of Selection Committee, Brennan Summer Fellowship Awards for Doctoral Dissertations, Saint Louis University, Spring 2014
- Scots Ambassador, Monmouth College, 2004-2006

Other Professional Service

- Panel Session Organizer, "Life and Your Mathematical Career: Finding a Healthy Balance", MathFest, August 2018
- Judge for AWM Graduate Student Poster Session, Joint Mathematics Meetings, January 2016 & 2018
- Judge for Undergraduate Student Poster Session, Joint Mathematics Meetings, January 2016 & 2018
- Game Control Member, D.A.S.H. National Puzzle Hunt - St. Louis, May 2015
- Chapter Life Advisor, Alpha Xi Delta-Epsilon Xi Chapter, University of Missouri-St. Louis, 2010-2011
- Philanthropy Advisor, Alpha Xi Delta-Kappa Chapter, University of Illinois at Urbana-Champaign, 2008-2009

MENTORING ACTIVITIES

- **Teaching Post Doctoral Scholar Mentoring Team**, University of Kentucky, Fall 2022-present
 - **Graduate Certificate in College Teaching Practicum Mentor**, University of Kentucky, Spring 2024
 - **Faculty Mentor**, University of Kentucky, Spring 2019-Spring 2022
 - **Graduate Certificate in Instructional Coaching Student Supervisor/Mentor**, University of Kentucky, Fall 2018-Fall 2019
 - **IAmAWomanInSTEM Mentoring Program**, University of Kentucky, Spring 2017-Spring 2019
 - **Expanding Your Horizons Conference**, University of Kentucky, Spring 2018 & 2019
 - **Math Club Informal Advising Event**, University of Kentucky, Fall 2017
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PROFESSIONAL DEVELOPMENT

Continuing Education

- Ethics, Equity, Inclusion, and Justice in the Mathematical Sciences (EEIJMS) working group, participant, University of Kentucky, Spring 2021-present
- CELT Universal Design for Learning (UDL) Bootcamp, University of Kentucky, May 2024
- CELT Teaching Innovation Institute, University of Kentucky, 2021-2022
- CoRequisite Seminar, Morehead State University, KY, May 2019
- MAA CoMInDS Workshop on Professional Development for Graduate Teaching Assistants, The University of Tennessee-Knoxville, TN, March 2019
- MAA CoMInDS Summer Workshop on Improving the Preparation of Graduate Students to Teach Undergraduate Mathematics, The University of Maine-Orono, ME, June 2016
- Certificate in University Teaching Skills, presented by the Reinert Center for Transformative Teaching and Learning, Saint Louis University, December 2013
- Internship in College Teaching, course taken at Illinois State University, Fall 2008