

Katheryn A. Beck

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(630)656-2293

Education

University of Kansas

August 2018 - May 2024 (Expected)

Lawrence, Kansas

PhD in Mathematics

Advisor: Yannan Shen

University of Kansas

August 2020

Lawrence, Kansas

MA in Mathematics

Murray State University

January 2016 - May 2018

Murray, Kentucky

MS in Mathematics

Advisor: Robert Donnelly

Murray State University

August 2013 - December 2016

Murray, Kentucky

BA in Mathematics Secondary Education

Minor in Spanish

College of DuPage

August 2011 - May 2013

Glen Ellyn, Illinois

AAT in Mathematics

Work Experience

Graduate Teaching Assistant

August 2018 - Present

University of Kansas

Teen Camp Supervisor

Summer 2019

Butterfield Park District

Graduate Teaching Assistant

January 2016 - May 2018

Murray State University

Teaching Experience

Course	Description	Institution	Term
MATH 146	Honors Calculus II	University of Kansas	Fall 2022
MATH 127	Calculus III Recitation	University of Kansas	Fall 2021
MATH 115	Business Calculus I (Enhanced)	University of Kansas	Spring 2021
MATH 115	Business Calculus I	University of Kansas	Fall 2020
MATH 115	Business Calculus I	University of Kansas	Spring 2020
MATH 104	PreCalculus	University of Kansas	Fall 2019
MATH 101	College Algebra	University of Kansas	Spring 2019
MATH 101	College Algebra	University of Kansas	Fall 2018
MAT 097	Intermediate Algebra	Murray State University	Fall 2017
MAT 097	Intermediate Algebra	Murray State University	Spring 2017
MAT 097	Intermediate Algebra	Murray State University	Fall 2016
MAT 097	Intermediate Algebra	Murray State University	Spring 2016
High School	College and Career Readiness Math	Marshall County High School	Fall 2015
High School	AP Calculus AB	Henry County High School	Spring 2015
High School	Dual Credit Algebra	Henry County High School	Spring 2015
High School	9 th Grade Algebra	Calloway County High School	Fall 2014

Additionally, hosted large lecture reviews for

- MATH 104 (in -person)
- MATH 115 (online via Zoom)

Skills

- Familiarity with MATLAB, L^AT_EX, python, and Julia
- Conversationally fluent in Spanish

Conferences & Workshops

- IMA Math-to-Industry Boot Camp *June 20 – July 29, 2022*
Capstone project on The Prediction of Prepayment Due to Turnover in the Mortgage Market
This was in collaboration with Chris Jones and U.S. Bank.
- SIAM Central States Section, University of Kansas (Virtually) *October 2021*
Poster: “Least Squares Spectral Element Method and Dirac Equation”
- KYMAA, Berea College *March 2017*
Talk: “Solving a move-minimizing domino game using odd orthogonal distributive lattices”

Papers & Publications

1. Master's Thesis work completed on "Distributive lattice models of fundamental symmetric polynomials for the type B_n Weyl groups" advised by Dr. Robert G. Donnelly

Honors and Awards

- Ralph Byers Student Award *May 2022*

Memberships

- Math Graduate Student Organization *July 2022 - July 2023*
President - University of Kansas
- Math Graduate Student Organization *July 2021 - July 2022*
Vice-President - University of Kansas
- Math Graduate Student Organization *July 2020 - July 2021*
Treasurer - University of Kansas
- Association for Women in Mathematics *September 2015 - December 2017*
Public Relations Officer - Murray State University

Service & Outreach

- Graduate Assistant to the BRIDGE program *Summer 2022*
- Co-founder and co-organizer, Kansas Mathematics Graduate Students Conference *Fall 2021 - present*
- Co-organizer, Math and Statistics Awareness Month 5th grader workshop *April 2021*
- Leader, University of Kansas Numerical Analysis Ph.D. Qualification Exams Study Group *Fall 2020*
- Mentor in the University of Kansas Graduate Student Mentor/Mentee Program *Fall 2020 - present*