ERIC B. KAHN

Born: 12 January 1982 Bloomsburg University
Citizenship: USA Department of Mathematical

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EDUCATION

• Ph.D. Mathematics, Spring 2009, University of Kentucky

• M.A. Mathematics, Spring 2006, University of Kentucky

• B.A. Mathematics, Spring 2004, Kenyon College

RESEARCH AREA - Mathematics and Sports, Algebraic Topology, and Homological Algebra

FELLOWSHIPS AND AWARDS

- 2009 Project NExT Fellow a competitive national professional development program for new mathematics faculty. The term NExT is an acronym for 'New Experiences in Teaching.'
- 2008 Certificate of Outstanding Teaching award by the College of Arts & Sciences at the University of Kentucky for quality of teaching courses from the natural and mathematical sciences during the calender year of 2007.
- 2007 & 2008 Max Steckler Fellowship
- 2003 Summer Science Scholar a program for undergraduate students of the natural sciences, with the help of an advisor, are funded to create a research plan, complete the project, and present the results at a campus event.

TEACHING SUMMARY

- As Primary Instructor at BU
 - MATH 53.492 Abstract Algebra 2 (Independent Study)
 - MATH 53.492 Representation Theory (Independent Study)
 - MATH 53.451 Introduction to Topology (Individualized Instruction)
 - MATH 53.422 Complex Variables (Individualized Instruction)
 - MATH 53.405 Abstract Algebra
 - MATH 53.360 Number Theory
 - MATH 53.314 Linear Algebra
 - MATH 53.226 Calculus IV
 - MATH 53.225 Calculus III

- MATH 53.217 History of Mathematics
- MATH 53.202 Math Concepts II
- MATH 53.126 Calculus II
- MATH 53.125 Calculus I
- MATH 53.123 Essentials of Calculus
- MATH 53.113 Pre-Calculus
- MATH 53.101 Mathematical Thinking
- As Primary Instructor at UK
 - MATH 322 Matrix Algebra
 - MATH 202 Mathematics for Elementary Teachers II
 - MATH 201 Mathematics for Elementary Teachers I
 - MATH 114 Calculus II
 - MATH 111 Contemporary Mathematics
 - MATH 109 College Algebra
 - MATH 108 Remedial Algebra
- As Recitation Leader at UK
 - MATH 114 Calculus II
 - MATH 113 Calculus I

PUBLISHED WORK

- 1. "Exploring Discrete Mathematics with American Football" (coauthored with Tricia Brown), PRIMUS, Volume 25, Number 5, 2015, pg. 421-438.
- 2. Problems and Proofs in Numbers and Algebra, (coauthored with Richard S. Millman, and Peter J. Shuie), Springer Publishing, (February 2015).
- 3. "Flat discrete modules over profinite groups", (coauthored with Ed Enochs) Communications in Algebra, Volume 42, Number 6, 2014, pg. 2331-2337.
- 4. "The relative Burnside kernel the elementary abelian case", Rocky Mountain Journal of Mathematics, Volume 43, Number 2, 2013, pg. 523-537.
- 5. "How deep is your playbook?" (coauthored with Tricia Brown), *Mathematics and Sports*, Mathematical Association of America, (August 2010).

TALKS and PRESENTATIONS

2017 "IBL SIGMAA"

	Candice Price, & Xiao Xiao Poster Session, IBL mini-conference, Mathfest
2017	"A first attempt at a history of mathematics course: mathematics and general education" History or Philosophy of Mathematics, MAA General Contributed Paper Session, MAA-AMS Joint Meetings
2017	"Perspectives on Inquiry Based Learning: Novice, Experienced, and Master" MAA Panel, MAA-AMS Joint Meetings
2014	"American football and an unexpected introduction into upper level mathematics" Given jointly with Tricia Muldon Mathematics and Sports I, MAA paper session, MAA-AMS Joint Meetings
2013	"Developing voting systems on the first day: an IBL approach" Projects, Demonstrations and Activities that Engage Liberal Arts Mathematics Students, MAA paper session MAA-AMS Joint Meetings
2012	"Angle preservation and non-inscribable polyhedra" Department seminar, Bloomsburg University
2011	"What kindergarten didn't teach us about spheres" Department seminar, Bloomsburg University
2010	"The Generalized Burnside and Representation Rings" Group theory III session, MAA-AMS Joint Meetings
2009	"Football and mathematics : could you do it better?" Department seminar, Bloomsburg University
2009	"The generalized Burnside and representation rings" Doctoral defense, University of Kentucky
2008	"The relative Burnside kernel - the elementary abelian case" Topology seminar, University of Kentucky
2008	"Bundles of vectors and where they can lead" Graduate student colloquium, University of Kentucky
2007	"Ranks of specific relative Burnside and representation rings" Topology seminar, University of Kentucky

Given jointly with TJ Hitchman, Brian Katz, Alison Marr, Victor Piercey,

2007	"Complex representations and Schur's lemma"
	Graduate student colloquium, University of Kentucky
2007	"A nice connection between the Burnside and representation rings"
	Topology seminar, University of Kentucky
2006	"Amanda's phone number problem"
	Given jointly with Tricia Muldoon
	Appalachian Association of Mathematics Teacher Educators, Moorehead
	University
2006	"Relations between ordinary and extraordinary homology"
2000	· · · · · · · · · · · · · · · · · · ·
	Topology seminar, University of Kentucky
2006	"Stein interpolation theorem"
	MA773 - Boundary Value Problems, University of Kentucky
2005	"Smooth manifolds and smooth maps"
2000	Topology seminar, University of Kentucky
	Topology Semmar, Oniversity of Kentucky
2003	"Linear semigroups of operators exhibiting chaotic behavior"
	Research poster session, Kenyon College
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PROFESSIONAL SERVICE

2017-2018	Program Coordinator for IBL SIGMAA (elected, two calendar year term)
2013-present 2017	PASSHE-MA Board Representative (volunteer) Recording Secretary (elected 2017)
2015-present	Coordinator MAA EPaDel student paper contest
2010-2014	Co-coordinator MAA EPaDel student paper contest
2011-2014, 2016-2017	Judge for submissions to Young Mathematicians' Conference (YMC)
2010-2011, 2013, 2015	Judge for MAA Mathfest student paper presentation

CONFERENCE COMMITTEES

- Member of the Organizing Committee for MAA Themed Contributed Paper Session "Inquiry Based Teaching and Learning, I-IV", MAA-AMS Joint Meetings, San Diego, CA, 12-13 January, 2018
- Member of the Organizing Committee for the Project NExT special session "Publishing in the Scholarship of Teaching and Learning", Project NExT Workshop prior to MAA Mathfest, Pittsburg, PA, August 4 2010
- Member of the Organizing Committee for the Project NExT special session "Getting Discovery Learning Started", MAA-AMS Joint Meetings, San Francisco, CA, January 13, 2010

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Mathematical Society Association for Women in Mathematics Mathematical Association of America Sigma Xi