

Dr. Michelle L. Knox

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Educational Background

- Ph.D. in Mathematics, Bowling Green State University, Bowling Green, OH, August 2005
- M.A. in Mathematics, Bowling Green State University, Bowling Green, OH, August 2001
- B.A. in Mathematics (minor: English), Malone College, Canton, OH, May 1999

Teaching Experience

- Midwestern State University 2005-present
 - Professor of Mathematics, 2017-present
 - Associate Professor of Mathematics, 2011-2017
 - Assistant Professor of Mathematics, 2005-2011
 - Courses taught:
 - MATH 0003/1053 Corequisite Contemporary Mathematics
 - MATH 1003 Intermediate Algebra
 - MATH 1003/1233 Corequisite Intermediate/College Algebra
 - MATH 1053 Contemporary Mathematics
 - MATH 1203 Mathematical Analysis for Business
 - MATH 1233 College Algebra
 - MATH 1433 Trigonometry
 - MATH 1534 Precalculus
 - MATH 1634 Calculus I
 - MATH 1734 Calculus II
 - MATH 2534 Calculus III
 - MATH 2753 Linear Algebra
 - MATH 3233 Introduction to Modern Mathematics
 - MATH 3293 Abstract Algebra I
 - MATH 3753 Vector Spaces
 - MATH 4293 Abstract Algebra II
 - MATH 4733 Introductory Analysis I
 - MATH 4833 Introductory Analysis II
 - MATH 4933 Topics: Topology
 - STAT 3573 Probability and Statistics
- Bowling Green State University, Graduate Teaching Assistant, 1999-2004

Publications

1. *Distribution of constant terms of irreducible polynomials in $Z_p[x]$ whose degree is a product of two distinct primes* with S. Cobb, M. Lopez, T. McDonald, and P. Mitchell, Notes on Number Theory and Discrete Mathematics, Vol. 30, No. 1, (2024), p. 195-210.
2. *Disconnection in the Alexandroff Duplicate* with P. Bhattacharjee and W. Wm. McGovern, Applied General Topology, Vol. 22, No. 2 (2021) 331-344.
3. *Distribution of Constant Terms of Polynomials in $Z_p[x]$* with S. Cobb, M. Lopez, T. McDonald, and P. Mitchell, Notes on Number Theory and Discrete Mathematics, Vol. 25, No. 4 (2019) p. 72-82
4. *Evaluationally Relatively Prime Polynomials* with T. McDonald and P. Mitchell, Notes on Number Theory and Discrete Math, Vol. 21, No. 1 (2015) p. 36-41.
5. *pg -extensions and p -Extensions with Applications to $C(X)$* with P. Bhattacharjee, Journal of Algebra and Its Applications, Vol. 14 No. 5 (2015).
6. *p -Extensions* with P. Bhattacharjee and W. Wm. McGovern, Ring Theory and Its Applications, Contemporary Mathematics, Volume 609, American Mathematical Society, Providence, RI (2014).
7. *The Classical Ring of Quotients of $C_c(X)$* with P. Bhattacharjee and W. Wm. McGovern, Applied General Top. Vol. 15 No. 2 (2014) p. 147-154.
8. *p -Embeddings* with P. Bhattacharjee and W. Wm. McGovern, Top. Appl. Vol. 160, No. 13 (2013) p. 1566-1576
9. *Feebly Projectable ℓ -Groups* with W. Wm. McGovern, Algebra Universalis, Vol. 62, No. 1 (2010) p. 91-112.
10. *Generalizations of Complemented Rings with Applications to Rings of Functions* with R. Levy, W. Wm. McGovern, and J. Shapiro, Journal of Algebra and Its Applications, Vol. 8, No. 1 (2009) p. 17-40.
11. *Conditional Completeness of $C(X, \mathbb{R}_\tau)$ for Weak P -spaces $\mathbb{R}_\tau$* , Real Analysis Exchange, Vol. 34, No. 1 (2008) p. 61-68.
12. *Rigid Extensions of ℓ -Groups of Continuous Functions* with W. Wm. McGovern, Czechoslovak Mathematical Journal, Vol. 58 (133), No. 4, (2008) p. 993-1014.
13. *Feebly Projectable Algebraic Frames and Multiplicative Filters of Ideals* with W. Wm. McGovern, Applied Categorical Structures, Vol. 15, No. 1-2 (2007) p. 3-17.
14. *A Characterization of Rings of Density Continuous Functions*, Real Analysis Exchange, Vol. 31, No. 1, (2006) p. 165-177.

Research Groups

1. Meet weekly with MSU mathematics faculty Dr. Sarah Cobb, Dr. Terry McDonald, and Dr. Patrick Mitchell. Three of my publications are with members of this group.

Works in Progress

1. *Zero-dimensionality in the Alexandroff duplicate* with W. Wm. McGovern and P. Bhattacharjee

Textbooks

1. *Precalculus An Integrated Approach* with M. May, P. Mitchell, and D. Tucker, published via MSU press, fall 2012