

Joseph Brennan

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RESEARCH INTERESTS

<http://www2.math.binghamton.edu/p/people/jbrennan/research.html>

Broadly, I am an algebraist and group theorist. My main research focus is on group structure with an emphasis on finite p -groups. Specifically, I am interested in maximal subgroup conditions on p -groups, metabelian p -groups, commutators and autocommutators, investigating cyclic word subgroups, and investigating the Chermak-Delgado lattice of groups.

EMPLOYMENT

Riley Assistant Professor
Binghamton University SUNY

8/2012 - present
Postdoctoral Position

EDUCATION

PhD, Mathematics
Area of Focus: Finite Group Theory

University of Florida, Gainesville, FL

May 2012
Advisor: Alexandre Turull

MS, Mathematics

University of Florida, Gainesville, FL

August 2008

BS, Mathematics

University of Florida, Gainesville, FL

May 2006

PUBLICATIONS

- (1) L. An, J. Brennan, H. Qu, and E. Wilcox. *Chermak-Delgado Lattice Extension Theorems*. arXiv:1307.0353. To appear, Communications in Algebra.
- (2) L. Anderson and J. Brennan. *An Experiment in "Flipped" Teaching in Freshman Calculus*. Submitted to PRIMUS.
- (3) J. Brennan and L.C. Kappe. *On Groups with a Cyclic n -th Power Subgroup*. **In preparation.**
- (4) L. An, J. Brennan, and H. Qu. *p -Groups with a Simple Chermak-Delgado Lattice*. **In preparation.**
- (5) J. Brennan. *On p -Groups with an Abelian Subgroup of Index p* . **In preparation.**

TEACHING EXPERIENCE

Detailed teaching information can be found at

<https://www2.math.binghamton.edu/p/people/jbrennan/teaching.html>

Binghamton University SUNY
Riley Assistant Professor

9/2012 – present

Elementary Statistics for Biologists (lecture); spring 2013 (232 students / 5 teaching assistants).

Calculus 1 (traditional); fall 2012.

Calculus 1 (flipped); fall 2013/2014 and spring 2013.

Linear Algebra; fall 2013/2014.

Number Systems (Introduction to Proofs); fall 2012.

Graduate Special Topics: Finite p -Groups; spring 2014.

Liberal Arts Mathematics (lecture); summer 2010 (100 students / 2 teaching assistants).

Liberal Arts Mathematics 2; spring 2008 and summer 2008.

Calculus 1; summer 2009.

Calculus 2; spring 2009/2010.

Calculus 3 (lecture); fall 2011 and spring 2012 (each 200 students / 3 teaching assistants).

Calculus 3; summer 2011.

Teaching Assistant

Calculus 3; spring 2011.

Calculus 2 for Advanced Placement Students; fall 2008/2009/2010.

Calculus 1; fall 2007.

Precalculus with Trigonometry; fall 2006 and spring 2007.

Liberal Arts Mathematics 2; spring 2008.

Liberal Arts Mathematics; summer 2007.

COMPUTER SKILLS

MAGMA, GAP, LaTeX, html, Camtasia, and course management systems (Blackboard and E-Learning)

CONFERENCES AND TALKS

30th Denison Zassenhaus Conference Attended	5/2010 The Ohio State University
Zassenhaus Conference Talk: <i>Generalized Blackburn Groups</i>	5/2011 Towson University
Joint Meetings AMS-MAA Attended (travel support through the AMS)	1/2012 Boston, Massachusetts
31st Denison Zassenhaus Conference Talk: <i>Classification of Conlon Groups</i>	5/2012 The Ohio State University
Creitz Group Theory Conference Talk: <i>Conlon and 2-generalized Blackburn Groups</i>	8/2012 Franklin & Marshall University
MAA Seaway Section Meeting Attended	10/2012 Elmira College
Binghamton University Graduate Conference Algebra/Topology Talk: <i>Finite p-Groups</i>	11/2012 Binghamton University SUNY
Invited Talk - Seminar Series Talk: <i>Why Study Group Theory?</i>	3/2013 SUNY Oneonta
Zassenhaus Conference Talk: <i>On p-Groups with an Abelian Subgroup Index p</i>	5/2013 Western Carolina University

Invited Talk - Seminar Series 6/2013
 Talk: *On p -Groups with an Abelian Subgroup Index p* Shaanxi Normal University, Linfen, China
 Talk: *Chermak-Delgado Lattices of p -Groups*
 Talk: *Why Study p -Groups?*

MAA Mathfest 8/2013
 Attended (Project NeXT) Hartford, Connecticut

MAA Seaway Section Meeting 10/2013
 Talk: *SUNY Binghamton's Hybrid Approach to Teaching Calculus* SUNY Potsdam

Joint Meetings AMS-MAA 1/2014
 Talk: *Variations on a Theme of I.D. Macdonald* Baltimore, Maryland

MAA Seaway Section Meeting 4/2014
 Attended Buffalo State

32st Denison Zassenhaus Conference 5/2014
 (Conference Organizing Committee)
 Talk: *On CD -Simple p -Groups* The Ohio State University

SUNY Conference on Instructional Technology 5/2014
 Talk: *A Hybrid Approach to Teaching Calculus* Cornell University

International Conference on Groups, Rings, and Group Rings 7/2014
 Attended (with partial support from the conference) Brock University, Canada

MAA Mathfest 8/2014
 Attended (Project NeXT) Portland, Oregon

MAA Seaway Section Meeting 10/2014
 Talk: *Flipped Calculus at Binghamton University* Alfred University

SERVICE

Zassenhaus Conference (2015)
 Organizing Committee (2014-present)

32nd Ohio State Denison Group Theory Conference
 Organizing Committee (2013-2014)

Flipping Calculus at Binghamton SUNY
 Collaboration between Laura Anderson, James Pitarresi, and myself (2013-2014)

University of Florida Graduate Mathematics Association
 President (2008-2011) Founded Graduate Student Seminar

University of Florida Graduate Student Council
 Mathematics Representative (2008-2011)

Graduate Assistants United (United Faculty of Florida)
 Mathematics Representative (2008-2010)
 Bargaining Committee Co-Chair (2009-2010) 2010 Graduate Student Contract

GRANTS

SUNY Innovative Instruction Technology Grants Co-PI: <i>A Hybrid Approach to Teaching Calculus</i>	2013-2014
National Natural Science Foundation of China Visiting Scholar at Shanxi Normal University, Linfen, China; (grant # 11071150)	6/2013
AMS Graduate Student Travel Grant to the Joint Mathematics Meetings	1/2012.
Center for Applied Mathematics , Travel Grant	5/2010.

HONORS

- MAA Project NExT Fellow, 2013 – 2014.
- UF Mathematics Graduate Student Teaching Award, 5/2012.
- Teaching Award. Department Certificate of Merit, 4/2010.

REFERENCES

- Alexandre Turull, Professor Mathematics, PhD Advisor, University of Florida, turull@ufl.edu
- Benjamin Brewster, Professor Mathematics, Binghamton University SUNY, ben@math.binghamton.edu
- Luise-Charlotte Kappe, Professor Emerita, Binghamton University SUNY, menger@math.binghamton.edu
- Laura Anderson, Assoc. Professor Mathematics, Binghamton University, laura@math.binghamton.edu
(*teaching*)
- Peter Sin, Professor Mathematics, University of Florida, sin@ufl.edu
- Li-Chien Shen, Professor Mathematics, University of Florida, shen@ufl.edu (*teaching*)