

Jared Holshouser

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RESEARCH INTERESTS

Set Theory and Topology

WORK EXPERIENCE

University of South Alabama

Assistant Professor, August 2017 - Present

EDUCATION

University of Texas at Austin

B.S. in Mathematics, May 2010

University of North Texas

M.S. in Mathematics, May 2013

- Dissertation Topic: The Independence of the Axiom of Choice from the Ultrafilter Theorem
- Advisor: Stephen Jackson

Ph.D. in Mathematics, May 2017

- Dissertation Topic: Partition Properties for Non-Ordinal Sets Under the Axiom of Determinacy
- Advisor: Stephen Jackson

AWARDS

Project NExT

I am a Project NExT fellow with the silver 2019 cohort. Project NExT is an MAA program that develops the teaching of early career faculty by providing evidence based materials from excellent math professors and creating a support network of motivated instructors.

PUBLICATIONS

Steven Clontz and Jared Holshouser, *Limited information strategies and discrete selectivity*, Topology and its Applications, Volume 265, 2019

Chris Caruvana and Jared Holshouser, *Closed Discrete Selection in the Compact Open Topology*, Topology Proceeding, Volume 56, 2020

Chris Caruvana and Jared Holshouser, *Selection Games on Continuous Functions*, submitted for publication, <https://arxiv.org/abs/1910.02476>

PRESENTATIONS

Calibrating the Size of Complicated Quotients, 52nd Spring Topology and Dynamical Systems Conference. (March 2018)

Closing the Preparation Gap, Professional Development Workshop at the University of South Alabama. (September 2018)

Geometric Constructibility Through Origami, Centenary College. (October 2018)

Limited Information Strategies and Discrete Selectivity, 53rd Spring Topology and Dynamical Systems Conference (March 2019)

Selection Games on Continuous Functions, AMS Fall Central Sectional Meeting (September 2019)

CONFERENCE
ATTENDANCE

Special Conference on Topology in Honor of Gary Gruenhage (October 2017)
52nd Spring Topology and Dynamical Systems Conference (March 2018)
53rd Spring Topology and Dynamical Systems Conference (March 2019)
MAA Mathfest (July 2019)
AMS Fall Central Sectional Meeting (September 2019)

TEACHING
EXPERIENCE

University of South Alabama, 12 credit hours per semester

Fall 2017

- Calculus III (MA 227) 3 sections: 37, 34, and 28 students

Spring 2018

- Differential Equations (MA 238) 2 sections: 37 and 36 students
- Pre-Calculus Algebra (MA 112) 2 sections: 50 and 34 students

Fall 2018

- Linear Algebra (MA 237) 2 sections: 29 and 14 students
- Calculus I (MA 125) 2 sections: 37 and 30 students

Spring 2019

- Calculus II (MA 126) 2 sections: 30 and 25 students
- Calculus I (MA 125) 1 section: 22 students
- Pre-Calculus Algebra (MA 112) 1 section: 25 students

Fall 2019

- Calculus II (MA 126) 1 section: 30 students
- Calculus and its Applications (MA 120) 1 section: 29 students
- Pre-Calculus Trigonometry (MA 113) 2 sections: 31 and 30 students

SERVICE

2017

- I served on the outreach committee, whose focus is on supporting the community around the University of South Alabama. In this role I helped organize and run the MaPP challenge, a day long math-based puzzle competition for high schools.
- I ran a recruitment table for graduate students at Troy mathFEST.

2018

- I served on the computer committee, which is responsible for the upkeep and upgrades of the math departments computer resources.
- I was assigned the role of course coordinator for calculus I.
- I continued to assist the outreach committee. I helped run the DASH puzzle hunt and I designed a puzzle for the MaPP challenge. I volunteered with the math club as well.

2019

- I am currently serving on the outreach committee. This year I was lead designer of the MaPP challenge.
- I am coordinating calculus I and II. I oversaw the transition of the courses to online homework and updated the official syllabi of calculus I, II, and III.

REFERENCES

Steven Clontz, Assistant Professor at the University of South Alabama, colleague and collaborator, sclontz@southalabama.edu

Mark Colarusso, Assistant Professor at the University of South Alabama, colleague, mcolarusso@southalabama.edu

Andrew Lewis, Assistant Professor at the University of South Alabama, colleague, drewlewis@southalabama.edu

Stephen Jackson, Regents Professor at the University of North Texas, PhD advisor, stephen.jackson@unt.edu