

# Jared Holshouser

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## Department of Math and Statistics

University of South Alabama  
411 University Boulevard North  
Mobile, AL 36688-0002

940-206-0625

[JaredHolshouser@southalabama.edu](mailto:JaredHolshouser@southalabama.edu)

<https://jaredholshouser.github.io/>

U.S. Citizen

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## Research Interests

Set Theoretic Topology and Descriptive Set Theory

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## Work Experience

### University of South Alabama

Assistant Professor | August 2017 - Present

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## Education

### University of Texas at Austin

B.S. in Mathematics | May 2010

### University of North Texas

M.S. in Mathematics | May 2013

**Dissertation:** The Independence of the Axiom of Choice from the Ultrafilter Theorem

**Advisor:** Stephen Jackson

Ph.D. in Mathematics | May 2017

**Dissertation:** Partition Properties for Non-Ordinal Sets Under the Axiom of Determinacy

**Advisor:** Stephen Jackson

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## Awards

### Project NExT Fellowship

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.

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## 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 Proceedings, Volume 56, 2020

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

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## Presentations

### Calibrating the Size of Complicated Quotients | March 2018

52nd Spring Topology and Dynamical Systems Conference

### Closing the Preparation Gap | September 2018

Professional Development Workshop at the University of South Alabama

### Geometric Constructibility Through Origami | October 2018

Centenary College

### Limited Information Strategies and Discrete Selectivity | March 2019

53rd Spring Topology and Dynamical Systems Conference

### Selection Games on Continuous Functions | September 2019

AMS Fall Central Sectional Meeting

### Compactness, Continuous Functions, and Games | November 2019

Berry College

## 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

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## 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

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## 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.

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## References

**Steven Clontz, Assistant Professor at the University of South Alabama**

Colleague and collaborator, [sclontz@southalabama.edu](mailto:sclontz@southalabama.edu)

**Mark Colarusso, Assistant Professor at the University of South Alabama**

Colleague, [mcolarusso@southalabama.edu](mailto:mcolarusso@southalabama.edu)

**Andrew Lewis, Assistant Professor at the University of South Alabama**

Colleague, [drewlewis@southalabama.edu](mailto:drewlewis@southalabama.edu)

**Stephen Jackson, Regents Professor at the University of North Texas**

PhD advisor, [stephen.jackson@unt.edu](mailto:stephen.jackson@unt.edu)