

# Jared Holshouser

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## Professional Experience

### **Norwich University (July 2020 - Present)**

Assistant Professor of Mathematics

#### **Duties:**

- Conducted original research, resulting in 4 peer-reviewed publications, 4 conference presentations, and 3 seminar presentations.
- Chaired the committee on academic technology, which manages the funds for maintaining academic technology and produces an annual report on technology use and needs.
- Mentored three students in a mixture of senior capstone experiences and summer research projects.
- Applied for internal grants to support the development of mathematics courses and undergraduate research projects and received \$7500 in funding.
- Reviewed 5 and refereed 3 mathematics papers.
- Developed and taught courses across the mathematics curriculum, including introductory courses, upper-division courses, a specialty course for architecture majors, and statistics.
- Coordinated introductory mathematics courses, introduced new teaching methods and grading techniques, and evaluated new teaching methods. My coordination raised the student success rate (the D and F rate went from 31% to 21% in precalculus and from 25% to 15% in the specialty architecture course) and improved the working conditions of the other instructors.
- Advised students on coursework and career preparation for criminal justice, mathematics, and mechanical engineering majors.
- Contributed to various committees, revising university policy, updating college curriculum standards, and maintaining the mathematics department.

### **University of South Alabama (July 2017 - June 2020)**

Assistant Professor of Mathematics

#### **Duties:**

- Conducted original research, resulting in 2 peer-reviewed publications, 4 conference presentations, and 3 seminar presentations.
- Mentored two undergraduate students in independent research projects. The topics covered stochastic processes and applications of abstract algebra to chemistry.
- Developed and taught freshman and sophomore level mathematics courses.
- Coordinated introductory mathematics courses and managed the formal assessment of those courses.
- Contributed to multiple day long recruiting events for the mathematics department.

# Education

**Ph.D in Mathematics**      University of North Texas      May 2017      GPA 4.0/4.0

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

**Coursework:** Logic, Algebra, Dynamics, Real and Complex Analysis, Topology, Set Theory

**Other Duties:** Teaching fellow from 2010 - 2017.

**M.S. in Mathematics**      University of North Texas      May 2013      GPA 4.0/4.0

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

**B.S. in Mathematics**      University of Texas at Austin      May 2010      GPA 3.5/4.0

# Skills

- Power BI
- SQL
- R
- SAS
- Microsoft Office Suite
- Sage
- Octave
- Python
- HTML
- Rhino with Grasshopper
- Moodle
- Latex Typesetting

# Publications

## Accepted Works

- Translation Results for Some Star-Selection Games, Chris Caruvana and Jared Holshouser, Topology and its Applications, to appear.
- Translation Results for some Selection Games with Minimal Cusco Maps, Chris Caruvana and Jared Holshouser, Rocky Mountain Journal of Mathematics, to appear.
- Selection Games and the Vietoris Space, Chris Caruvana and Jared Holshouser, Topology and its Applications, Volume 307, 2022.
- Selection Games on Hyperspaces, Chris Caruvana and Jared Holshouser, Topology and its Applications, Volume 300, 2021.
- Selection Games on Continuous Functions, Chris Caruvana and Jared Holshouser, Topology and its Applications, Volume 279, 2020.
- Closed Discrete Selection in the Compact Open Topology, Chris Caruvana and Jared Holshouser, Topology Proceedings, Volume 56, 2020.
- Limited Information Strategies and Discrete Selectivity, Steven Clontz and Jared Holshouser, Topology and its Applications, Volume 265, 2019.