

Jared Holshouser

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RESEARCH INTERESTS

Set Theory - In particular infinite combinatorics under the axiom of determinacy

EDUCATION

University of North Texas

Ph.D. Candidate, Mathematics (expected May 2017)

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

M.S. in Mathematics, May 2013

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

University of Texas at Austin

B.S. in Mathematics, May 2010

PUBLICATIONS

Partition Properties for Non-Ordinal Sets Under the Axiom of Determinacy, in preparation.

RESEARCH PRESENTATIONS

Partition Properties for Non-Ordinal Sets Under the Axiom of Determinacy, 2016 Boise Extravaganza in Set Theory. (June 2016)

Jónsson Properties for Non-Ordinal Sets Under the Axiom of Determinacy, Fifth NY Graduate Student Logic Conference. (May 2016)

Jónsson Properties for Non-Ordinal Sets Under the Axiom of Determinacy, Spring Western Sectional Meeting. (Apr. 2016)

Combinatorics Under the Axiom of Determinacy, Colloquium, Ohio University (Nov. 2016)

The Jónsson Problem, Algebra Seminar, University of North Texas. (Oct. 2016)

Generalizing Mycielski's Theorem, Logic and Dynamics Seminar, University of North Texas. (Oct. 2016)

Covering the k -Dimensional Cube, Dynamical Systems Seminar, University of North Texas. (Oct. 2015)

Ergodic Theorems and Non-Standard Analysis, Dynamical Systems Seminar, University of North Texas. (Mar./Apr. 2015)

Using Non-Standard Analysis to Realize Lebesgue Measure as a Counting Measure, Dynamical Systems Seminar, University of North Texas. (Fall 2014)

The Whitehead Problem, Algebra Seminar, University of North Texas. (Sept. 2013)

WORKSHOPS
ATTENDED

Set Theory Workshop, University of Illinois at Chicago, Chicago. (October 2016)
2016 Summer School in Set Theory, University of California, Irvine. (July 2016)
Appalachian Set Theory on Iteration Trees, Carnegie Mellon University. (May 2015)
Descriptive Inner Model Theory Workshop, University of California, Berkeley. (June 2014)

TEACHING
EXPERIENCE

Algebra (1100)	Primary Instructor	Fall 2011 - Spring 2012
	Teaching Assistant	Summer 2012
Business Calculus (1190)	Primary Instructor	Fall 2013
Survey of Math (1580)	Teaching Assistant	Fall 2010 - Summer 2011
Pre-Calculus (1650)	Teaching Assistant	Spring 2015
Statistics (1680)	Primary Instructor	Spring 2013 and Spring 2016
	Teaching Assistant	Spring 2016 - Fall 2016
Calculus I (1710)	Primary Instructor	Fall 2012
	Teaching Assistant	Spring 2014
Calculus II (1720)	Teaching Assistant	Fall 2014
Calculus III (2730)	Primary Instructor	Fall 2015

I have graded for Differential Equations I (3410), Differential Equations II (3420), Applied Statistics (3680), and Real Analysis I(5110).

I am currently participating in the GSTEP teaching excellence program.

SERVICE

Co-founded the Graduate Logic Group	Summer 2012
Organized the Graduate Logic Group	Fall 2013 - Spring 2014
Special TAMS Tutor	Fall 2013 and Fall 2014 - Spring 2015
Graduate Student Council Senator	Fall 2012 - Spring 2013

HONORS AND
AWARDS

2016	First Place Presentation
	2016 Boise Extravaganza in Set Theory
2010–2015	Graduate Assistance Tuition Scholarship
	University of North Texas
2014	Outstanding Graduate Student in Mathematics
	University of North Texas
2013	Academic Excellence Award
	University of North Texas

REFERENCES

Stephen Jackson, Regents Professor, University of North Texas,
email: stephen.jackson@unt.edu, phone: (940) 565-4705

Su Gao, Professor and Department Chair, University of North Texas,
email: Su.Gao@unt.edu, phone: (940) 565-3327

Mariusz Urbanski, Professor, University of North Texas,
email: Urbanski@unt.edu, phone: (940) 565-3323

Samuel Coskey, Assistant Professor, Boise State University,
email: scoskey@boisestate.edu, phone: (208) 426-2652

Steven Widmer, Senior Lecturer, University of North Texas,
email: Steven.Widmer@unt.edu, phone: (940) 369-5956