Richard Rast

Contact Information

University of Maryland
Department of Mathematics
4176 Campus Drive
College Park, MD 20742 USA

(850)830-0284
richard.rast@gmail.com
http://www.math.umd.edu/~rastr

Research Interests

Logic, specifically model theory. In particular, the Borel complexity of isomorphism for countable models of first-order theories, and related areas.

Education

University of Maryland

Ph.D., Mathematics (expected May 2016)

Thesis: The Complexity of Isomorphism for Some First-Order Theories
Advisor: Michael C. Laskowski

M.A., Mathematics, May 2012

Dickinson College

B.S., Mathematics & Computer Science, May 2009

Upcoming Publications

D. Ulrich, C. Laskowski, R. Rast, *A New Notion of Cardinality for Countable First-Order Theories* (submitted October 2015).

R. Rast, *The Borel Complexity of Isomorphism for Theories of Linear Orders*, Archive of Mathematical Logic (to appear).

R. Rast, D. Sahota, *The Borel Complexity of Isomorphism for O-Minimal Theories,* Journal of Symbolic Logic (to appear).

Selected Talks

Potential Cardinality, Rutgers Model Theory Seminar (April 2016). Invited talk.

Potential Cardinality, AMS Western Sectional Meeting (April 2016). Invited talk.

Potential Cardinality, Penn State Logic Seminar (March 2016). Invited talk.

Potential Cardinality, CUNY Model Theory Seminar (March 2016). Invited talk.

A New Notion of Cardinality for First Order Theories, Notre Dame Logic Seminar (December 2015). Invited talk.

The Borel Complexity of Some Ordered Theories, The Second Vaught's Conjecture Conference, University of California at Berkeley (June 2015). Invited talk.

Countable Model Theory and the Complexity of Isomorphism, Model Theory Seminar, City University of New York (November 2014). Invited talk.

Borel Complete O-Minimal Theories, ASL North American Meeting (May 2014). Contributed talk.

Organizational Experience

Student Logic Seminar at the University of Maryland, **Organizer**, Fall 2012 through Spring 2016.

RIT on Number Theory and Logic at the University of Maryland, **Organizer**, Spring 2013.

Teaching Experience

Introduction to Proof	Lecturer	Sp 2016, Fa 2015, Sp 2014
Introduction to Analysis	Lecturer	Fa 2013, Su 2013
Calculus III	Teaching Assistant	Sp 2015, Fa 2014, Fa 2012, Sp 2012
Calculus II	Teaching Assistant	Sp 2013, Sp 2010
Elementary Statistics	Lecturer	Fa 2011
Elementary Calculus	Lecturer	Fa 2010
Elementary Calculus	Teaching Assistant	Fa 2009

Recent Honors and Awards

2015	Winner, Spotlight on Graduate Research
2015	Aziz/Osborn Gold Medal in Teaching Excellence
2014	Mark E. Lachtman Fellowship
2010	Gold Medal in Teaching Excellence

Thesis Advisor

Michael C. Laskowski
Professor
Department of Mathematics
University of Maryland
College Park, Maryland, 20742
(301) 405-5336
mcl@math.umd.edu

Research References

David Marker
Professor
Department of Mathematics
University of Illinois at Chicago
851 S. Morgan St. (M/C 249)
Chicago, IL 60607-7045
(312) 996-3069
marker@uic.edu

Alexei Kolesnikov
Associate Professor
Department of Mathematics
Towson University
8000 York Rd, Towson, MD, 21252
(410) 704-3504
akolesnikov@towson.edu

Teaching Reference

Denny Gulick
Professor
Department of Mathematics
University of Maryland
College Park, Maryland, 20742
(301) 405-5157
dng@math.umd.edu