Richard Rast

Contact Information

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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

R. Rast, *The Complexity of Isomorphism for eni-shallow, eni-NDOP, $\aleph_0$-stable Theories,* in preparation.

R. Rast, *The Borel Complexity of Isomorphism for Theories of Linear Orders,* Archive for Mathematical Logic (submitted October 2015).

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

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

Selected Talks

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.

Teaching Experience

Introduction to Proof	Lecturer	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
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Local Reference

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Research References

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Teaching Reference

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