

WILL BONEY

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EMPLOYMENT **Benjamin Peirce Fellowship**, Harvard University
July 2014-Present (On leave 2014-2015)
NSF Mathematical Sciences Postdoctoral Research Fellowship
July 2014-Present
University of Illinois at Chicago, Mentor: John Baldwin (2014-2015)
Harvard University, Mentor: Hugh Woodin (2015-present)

EDUCATION **Carnegie Mellon University**, Pittsburgh, PA
Ph.D. in Mathematical Sciences, May 2014
Advances in Classifications Theory for Abstract Elementary Classes
Advisor: Rami Grossberg
Carnegie Mellon University, Pittsburgh, PA
M.Sc. in Mathematical Sciences, May 2010
Grinnell College, Grinnell, IA
B. A. in Mathematics, with honors, May 2008
Research Experience for Undergraduates, Texas A&M University, Summer 2007
Budapest Semesters in Mathematics, Budapest, Hungary, Fall 2006-Spring 2007

PAPERS AND PREPRINTS

1. Will Boney, *Tameness from large cardinal axioms*, The Journal of Symbolic Logic **79** (2014), no. 4, 1092-1119.
2. Will Boney and Rami Grossberg, *Forking in short and tame AECs*, Submitted, 44 pages. <http://arxiv.org/abs/1306.6562>
3. Will Boney, *Tameness and extending frames*, Journal of Mathematical Logic **14** (2014), 27 pages.
4. Will Boney, *Computing the number of types of infinite length*, To Appear in Notre Dame Journal of Formal Logic **58** 26 pages. <http://arxiv.org/abs/1309.4485>
5. Will Boney, Rami Grossberg, Alexei Kolesnikov, and Sebastien Vasey, *Canonical Forking in Abstract Elementary Classes*. Annals of Pure and Applied Logic **167** (2016), no. 7, 590-613.
6. Will Boney and Sebastien Vasey, *Tameness and frames revisited*, Submitted, 36 pages. <http://arxiv.org/abs/1406.5980>
7. Will Boney, *A presentation theorem for continuous logic and Metric Abstract Elementary Classes*, Submitted, 22 pages. <http://arxiv.org/abs/1408.3624>
8. Will Boney and Sebastien Vasey, *Chains of Saturated Models in Abstract Elementary Classes*, Submitted, 36 pages. <http://arxiv.org/abs/1503.08781>
9. Will Boney and Sebastien Vasey, *Categoricity and Infinitary Logics*, In Preparation, 9 pages. <https://arxiv.org/abs/1508.03316>
10. Will Boney and Monica VanDieren, *Limit models in strictly stable Abstract Elementary Classes*, Submitted, 18 pages. <http://arxiv.org/abs/1508.04717>
11. Will Boney and Pedro Zambrano, *Around the set-theoretical consistency of d -tameness of Metric Abstract Elementary Classes*, In Preparation, 9 pages. <http://arxiv.org/abs/1508.05529>
12. Will Boney and Spencer Unger, *Large Cardinal Axioms from Tameness in AECs*, To appear in the Proceedings of the American Mathematical Society, 15 pages. <http://arxiv.org/abs/1509.01191>

13. Will Boney, Rami Grossberg, Michael Lieberman, Jiri Rosicky, and Sebastien Vasey, *μ -Abstract Elementary Classes and other generalizations*, Journal of Pure and Applied Algebra **220** (2016), no. 9, 3048-3066.
14. John Baldwin and Will Boney, *Hanf numbers and presentation theorems in AECs*, To Appear in **Beyond First Order Model Theory Volume** (Iovino ed.), Monographs and Research Notes in Mathematics, CRC Press, 24 pages. <http://arxiv.org/abs/1511.02935>
15. Will Boney, *The Γ -ultraproduct and averageable classes*, Submitted, 23 pages. <http://arxiv.org/abs/1511.00982>
16. Will Boney, *No maximal models from looking down*, Preprint, 7 pages. <http://arxiv.org/abs/1511.01054>
17. Will Boney and Sebastien Vasey, *A Survey on Tame Abstract Elementary Classes*, To Appear in **Beyond First Order Model Theory Volume** (Iovino ed.), Monographs and Research Notes in Mathematics, CRC Press, 84 pages. <http://arxiv.org/abs/1512.00060>
18. Will Boney and Sebastien Vasey, *Good Frames in the Hart-Shelah Example*, Submitted, 31 pages. <http://arxiv.org/abs/1607.03885>
19. Will Boney, *Definable Coherent Ultrapowers and Elementary Extensions*, Preprint, 15 pages. <https://arxiv.org/abs/1609.02970>
20. Will Boney, Rami Grossberg, Monica VanDieren, and Sebastien Vasey, *Superstability from Categoricity in Abstract Elementary Classes*, Submitted, 16 pages. <https://arxiv.org/abs/1609.07101>

NOTES

1. *Coheir in Averageable Classes*, <http://www.math.harvard.edu/~wboney/notes/BoneyAVCoheir.pdf>
2. *Shelah's Omitting Types Theorem*, <http://www.math.harvard.edu/~wboney/notes/SOTTNotes.pdf>
3. *Feferman-Vaught Theorem*, <http://www.math.harvard.edu/~wboney/notes/FefermanVaughtNotes.pdf>
4. *Zilber's Pseudoexponentiation*, <http://www.math.harvard.edu/~wboney/notes/ZPEFNotes.pdf>

RESEARCH VISITS

Rutgers University - 1 week	October 2016
Centre de Recerca Matemàtica - 2 weeks	September 2016
Masaryk University - 1 week	May 2015
Rutgers University - 1 week	October 2014
Carnegie Mellon University - 1 week	October 2014
Hebrew University of Jerusalem - 2 weeks	October-November 2013
Universit of Illinois-Chicago - 1 week	October 2013

TEACHING EXPERIENCE

- Instructor:
 - Harvard:** Multivariable Calculus; Model Theory; Set Theory
 - CMU:** Problem Solving in Recreational Mathematics; Differential Equations; Integration, Differential Equations, and Approximation
- Teaching Assistant:
 - CMU:** Differential and Integral Calculus; Differential Equations; Multivariate Approximation and Analysis; Calculus in Three Dimensions; Concepts of Mathematics; Set Theory
- Grader:
 - CMU:** Measure and Integration (graduate); General Topology (graduate); Algebra I; Concepts of Mathematics; Integration, Differential Equations and Approximation

HONORS AND AWARDS	Postdoctoral Fellowship , National Science Foundation	Spring 2014
	Future Faculty Program , Eberly Center for Teaching Excellence	Fall 2013
	Math Department Nominee , Guy C. Berry Graduate Research Award, Mellon College of Science	Spring 2013
	Various Student Travel Awards , Association for Symbolic Logic (8 grants totalling \$8,933)	Summer 2010-Spring 2014
	Linn Smith Prize for Excellence in Mathematics , Grinnell College	Spring 2008
INVITED TALKS	University of Illinois-Chicago Logic Seminar , Chicago, IL	October 2016
	Set-theoretical Aspects of the Model Theory of Strong Logics , Bellaterra, Spain	September 2016
	ASL 2016 Annual North American Meeting , Storrs, CT	May 2016
	Neostability Theory , Oaxaca, Mexico	July 2015
	ECI Joint Meeting , Brno, Czech Republic	May 2015
	Seminar Z Algebra , Brno, Czech Republic	May 2015
	Miami University Department Colloquium , Oxford, OH	April 2015
	Carnegie Mellon University Model Theory Seminar , Pittsburgh, PA	March 2015
	Harvard/MIT Logic Seminar , Cambridge, MA	February 2015
	Southern Wisconsin Logic Colloquium , Madison, WI	February 2015
	AMS-ASL Special Session on Beyond First Order Model Theory , San Antonio, TX	January 2015
	Beyond First Order Model Theory Mini-conference , San Antonio, TX	January 2015
	City University of New York Model Theory Seminar , New York City, NY	December 2014
	Carnegie Mellon University Logic Seminar , Pittsburgh, PA	October 2014
	Carnegie Mellon University Model Theory Seminar , Pittsburgh, PA	October 2014
	University of Illinois-Urbana-Champaign Logic Seminar , Urbana, IL	September 2014
	University of Illinois-Chicago Logic Seminar , Chicago, IL	September 2014
	Classification Theory Workshop , Daejeon, South Korea	August 2014
	University of Maryland Model Theory Seminar , College Park, MD	February 2014
	University of California-Berkeley Model Theory Seminar , Berkeley, CA	November 2013
	Notre Dame Logic Seminar , South Bend, IN	November 2013
	McMaster Logic Seminar , Hamilton, Canada	November 2013
	University of Illinois-Chicago Louise Hay Logic Seminar , Chicago, IL	October 2013
CONTRIBUTED TALKS	Logic Colloquium 2014 , Vienna, Austria	July 2014
	2014 Joint Mathematics Meeting , Baltimore, MD	January 2014
	Mostowski100 (poster), Warsaw, Poland	October 2013
	Logic Colloquium 2013 , Evora, Portugal	July 2013
	4th European Set Theory Conference , Mon St Benet, Spain	July 2013

Model Theory 2013 (poster), Ravello, Italy June 2013
ASL 2013 Annual North American Meeting, Waterloo, Canada May 2013
New York Graduate Student Logic Conference, New York City, NY April 2013
Mathfest 2007, San Diego, CA August 2007
 4 talks in the Carnegie Mellon University Model Theory Seminar
 2 talks in the Carnegie Mellon University Mathematical Logic Seminar
 4 talks in the Carnegie Mellon University Graduate Student Seminar
 3 talks in the Grinnell College Mathematics and Statistics Seminar

SERVICE

Graduate Admissions Committee, Harvard University 2015-present
Math Department Diversity Reading Group, Harvard University 2015-present
Graduate Teaching Fellow, Eberly Center for Teaching Excellence 2011-2014
Vice President of Finance, Carnegie Mellon University Graduate Student Assembly 2010-2011
Representative for the Math Department, Carnegie Mellon University Graduate Student Assembly 2009
Referee: Annals of Pure and Applied Logic, Boletín de Matemáticas, Journal of Mathematical Logic, Journal of Symbolic Logic, Mathematical Logic Quarterly

MEMBERSHIPS

Association for Symbolic Logic
 American Mathematical Society
 Association for Women in Mathematics