

BOOKS

1. *Hod mice and the Mouse Set Conjecture*, Memoirs of American Mathematical Society, Volume 236, Number 1111, 171 pages.

PUBLICATIONS

1. (with John Steel) *The mouse set conjecture for sets of reals*, to appear in Journal of Symbolic Logic, available at math.rutgers.edu/~gs481, 16 pages.
2. *Covering with universally Baire operators*, to appear in Advances in Mathematics, available at math.rutgers.edu/~gs481, 68 pages.
3. *Non-tame mouse from a failure of square at a singular strong limit*, J. Math. Log. 14 (2014), no. 1, 1450003 (47 pages), 60–107.
4. (with Nam Trang) *Non-tame mouse from tame failures of the Unique Branch Hypothesis*, Canad. J. Math. 66 (2014), no. 4, 903–923.
5. *An inner model theory proof of the strong partition property at δ_1^2* , to appear at Notre Dame Journal of Formal Logic, available at math.rutgers.edu/~gs481, 7 pages.
6. (with A. Caicedo, P. Larson, R. Schindler, J. Steel and M. Zeman) *Square principles in \mathbb{P}_{max} extensions*, to appear in Isreal Journal of Mathematics, available at math.rutgers.edu/~gs481, 25 pages.
7. *Descriptive inner model theory*, Bull. Symbolic Logic 19 (2013), no. 1, 1–55.
8. *On the prewellorderings associated with directed systems of mice*, J. Symbolic Logic 78 (2013), no. 3, 735–763.
9. *On indestructibility aspects of identity crisis*, Arch. Math. Logic 48 (2009), no. 6, 493–513.
10. *On Hod-supercompactness*, Arch. Math. Logic 47 (2008), no. 7-8, 765–768.
11. (with A. Apter) *An Equiconsistency for Universal Indestructibility*, J. Symbolic Logic 75 (2010), no. 1, 314–322.
12. (with A. Apter) *Universal Indestructibility for Degrees of Supercompactness and Strongly Compact Cardinals*, Archive for Mathematical Logic 47, 2008, 133-142, 19 pages, available at math.rutgers.edu/~gs481.
13. (with A. Apter) *A reduction in consistency strength for universal indestructibility*, Bulletin of the Polish Academy of Sciences (Mathematics) 55, 2007, 1–6.
14. (with A. Apter) *Identity crises and strong compactness. III. Woodin cardinals*, Archive for Mathematical Logic, V. 45, 2006, 3, 307–322,
15. (with A. Apter) *Can a large cardinal be forced from a condition implying its negation?*, Proceedings of the American Mathematical Society, V. 133, 2005, 10, 3103–3108
16. (with A. Apter) *Jonsson-like partition relations and $j: V \rightarrow V$* , The Journal of Symbolic Logic, V. 69, 2004, 4, 1267–1281
17. *A theorem on Hamilton paths*, Dedicated to the memory of Robert E. Sacks (Purchase, NY, 2000), Graph Theory Notes of New York, V. 40, 2001, 35–36

REVIEWS

1. *Wadge degrees and projective ordinals*, to appear in Bulletin of Symbolic Logic.

INVITED CONFERENCES AT RESEARCH CENTERS

1. XIII International Workshop on Set Theory, 09/29/2014 to 10/03/2014, CIRM, Luminy, France.
2. AIM Workshop on Descriptive Inner Model Theory, 06/02/2014 to 06/09/2014, Palo Alto, California, USA.
3. Set Theory, January 12th - January 18th, 2014, Mathematics Forshungsinstitute Oberwolfach, Germany.
4. ESI 2013, Forcing, Large Cardinals and Descriptive Set Theory, 09/23/2013 to 09/27/2013, Vienna, Austria.
5. XII International Workshop on Set Theory, 09/24/2012 to 09/28/2012, CIRM, Luminy, France.
6. Set Theory, January 9th - January 15th, 2011, Mathematics Forshungsinstitute Oberwolfach, Germany.
7. XI International Workshop on Set Theory, 04/10/2010 to 08/10/2010, CIRM, Luminy, France.
8. Mini-Workshop: Feinstrukturtheorie und Innere Modelle, November 8th - November 14th, 2009, Mathematics Forshungsinstitute Oberwolfach, Germany.

PLENARY TALKS

1. *The Solovay hierarchy, 2012 ASL North American Annual Meeting, March 31-April 3, 2012, University of Wisconsin, Madison, Wisconsin, USA.*
2. *The Solovay hierarchy, Twelfth Asian Logic Conference, 15-20 December, 2011, Victoria University of Wellington, Wellington, New Zealand.*

SPECIAL SESSIONS

1. *Some applications of the core model induction, The Fourth European Set Theory Meeting, 15-18 July 2013, Barcelona, Spain.*
2. *Forcing failures of square in \mathbb{P}_{\max} extensions, Canadian Mathematical Society, December 9-11, 2011, Toronto, Canada.*
3. *On the strength of square, Special Session on Large Cardinals and the Continuum AMS, October 9-10, 2010, UCLA, Los Angeles.*
4. *The core model induction beyond $L(\mathbb{R})$, European Summer ASL meeting (Logic Colloquium 2009), July 31-August 5, 2009, Sofia, Bulgaria.*
5. *The Mouse Set Conjecture, The Second European Set Theory Meeting: In Honor of Ronald Jensen, July 5-10, 2009, Bedlewo, Poland.*
6. *The core model induction, 2009 ASL North American Annual Meeting, May 20-23, 2009, University of Notre Dame, Indiana.*

SUMMER COURSES

1. *The theory of hod mice below LSA, Berkeley Workshop on Descriptive Inner Model Theory, 06/12/2014 to 06/16/2014, Berkeley, California, USA.*
2. *The theory of hod mice below $AD_{\mathbb{R}} + \text{“}\Theta \text{ is regular”}$, AIM Workshop on Descriptive Inner Model Theory, 06/02/2014 to 06/09/2014, Palo Alto, California, USA.*
3. *Iteration trees, Graduate Summer School in Set Theory, June 25-July 6, 2012, Irvine, CA.*
4. *More on the strength of PFA, Workshop in Inner Model Theory & Descriptive Set Theory, June 1-3, 2012, Denton, TX.*
5. *On the strength of failure of square at a singular strong limit cardinal, 2nd conference on Core Model Induction and Hod Mice, August 08-19, 2011, Muenster, Germany.*
6. *Hod Mice, 1st conference on Core Model Induction and Hod Mice, July 19- August 06, 2010, Muenster, Germany.*

RESEARCH PROGRAMS AT MATHEMATICS INSTITUTES

1. *Aspects of descriptive Inner model theory, May 20-24, 2013, SQuaREs Program, American Institute of Mathematics, Palo Alto, CA.*
2. *Aspects of descriptive Inner model theory, April 15-21, 2012, SQuaREs Program, American Institute of Mathematics, Palo Alto, CA.*
3. *Aspects of descriptive Inner model theory, May 20-26, 2011, SQuaREs Program, American Institute of Mathematics, Palo Alto, CA.*

INVITED TALKS

1. *Some new applications of the core model induction, Boise Extravaganza in Set Theory (BEST), 17-19 June 2013, University of Nevada, Las Vegas.*
2. *A covering conjecture, Workshop on Iterated Forcing and Large Cardinals, 12-16 November 2013, Fields Institute, Toronto, Canada.*
3. *The Solovay hierarchy, CUNY Logic Workshop, February 3, 2012, NYC, NY.*
4. *The Solovay hierarchy, Cornell Logic Seminar, November 30, 2011, Ithaca, NY.*
5. *An invitation to inner model theory, Young Set Theory Workshop, March 21-25, 2011, Bonn, Germany.*
6. *On the strength of square, MAMLS at Rutgers, October 16 -17, 2010, Rutgers, New Jersey.*
7. *Descriptive inner model theory, SELS, February 27-28, 2010.*
8. *Descriptive inner model theory, Berkeley Logic Colloquium , March, 2011.*
9. *Descriptive inner model theory, UCLA Logic Colloquium , January 22, 2010.*
10. *The core model induction beyond $L(\mathbb{R})$, Infinitary combinatorics without the axiom of choice, Bonn, Germany June 11-14, 2009.*
11. *The core model induction beyond $L(\mathbb{R})$, Muenster, Germany May 27, 2009.*

12. *The core model induction, Boise Extravaganza in Set Theory (BEST), Boise State University March 27-29, 2009.*
13. *Hods of models of determinacy, Steel VIG, UCLA, January 30- February 1, 2009.*
14. *The Mouse Set Conjecture, CUNY Logic Workshop, NYC, November 21, 2008.*
15. *Can a large cardinal be forced from a condition implying its negation?, NY Graduate Student Logic Conference, November 20, 2004.*
16. *On Successor Jonsson Cardinals, CUNY Logic Workshop, March 7, 2003.*

CONFERENCE AND
GRANT
COMMITTEES

1. *NSF Panel 2014*
2. *Young Set Theory Workshop 2015*, member of the scientific committee.
3. *MAMLS Conference, Rutgers University, October 25-26, 2014*, organizer
4. *Young Set Theory Workshop 2014, Bedlewo, May 12th - May 16th, 2014, Bedlewo, Poland*, member of the scientific committee.
5. *2013 Fall Southeastern Section Meeting, Special Session on Set Theory and its Applications, October 5-6, 2013*, member of the scientific committee.
6. *MAMLS Conference, Rutgers University, October 6-7, 2013*, organizer
7. *Young Set Theory Workshop 2012, CIRM, April 30th - May 4th, 2012, Marseille, France*, member of the scientific committee.
8. *2nd conference on Core Model Induction and Hod Mice, August 08-19, 2011, Muenster, Germany*, member of the scientific committee.

REFEREEING
WORK

I served as a referee for the following journals. Journal of Mathematical Logic, Annals of Pure and Applied Logic, Advances in Mathematics, Journal of Symbolic Logic and Archives of Mathematical Logic.

WORK WITH
STUDENTS AND
POSTDOCS

1. Summer 2014. Worked with Elliot Glazer. He is an undergraduate at Rutgers. We did a reading course in set theory.
2. Fall 2013-Current. Have been working with Scott Cramer. He is a postgraduate fellow at Rutgers.
3. Fall 2014. Have worked with Daniel Rodriguez. He is a graduate student at CMU.
4. Fall 2014. Have worked with Dominik Adolf. He is a postgraduate fellow at UC Berkeley.
5. Fall 2009-Current. Have been working with Nam Trang. He was a graduate student at UC Berkeley. Currently postgraduate fellow at CMU.
6. Fall 2012-Current. Have been working with Trevor Wilson. He has been a postgraduate fellow at UC Irvine.