

Summer 2010	Postdoc, NUS Singapore
Summer 2009	Visitor, Institut für mathematische Logik und Grundlagenforschung, Fachbereich Mathematik und Informatik, Universität Münster
Summer 2006	Visitor, Institut für mathematische Logik und Grundlagenforschung, Fachbereich Mathematik und Informatik, Universität Münster

BOOKS

1. (with Nam Trang) *The Largest Suslin Axiom, submitted to Lecture Notes in Logic, 307 pages, available at math.rutgers.edu/~gs481.*
2. *Hod Mice and the Mouse Set Conjecture*, Memoirs of American Mathematical Society, Volume 236, Number 1111 (2015), 172 pages, 20 citations, Impact Factor 1.038 (2015, scijournal.org), AMS ranking A^* .

PUBLICATIONS

1. (with R. Atmai) *Hod up to $AD_{\mathbb{R}} + \Theta$ is measurable*, accepted for publication at Annals of Pure and Applied Logic, (2018), 19 pages, Impact Factor 0.647 (2016, scijournal.org), AMS ranking A .
2. (with D. Adolf) *Derived models of mice below the least fixed point of the Solovay sequence*, accepted for publication at Journal of Symbolic Logic (2017), 19 pages, Impact Factor 0.511 (2017, scijournal.org), AMS ranking A .
3. (with R. Schindler) *Varsovian Models I*, accepted for publication at Journal of Symbolic Logic (2017), 38 pages, Impact Factor 0.511 (2017, scijournal.org), AMS ranking A .
4. *Translation procedures in descriptive inner model theory*. Foundations of mathematics, 205-223, Contemp. Math., 690, Amer. Math. Soc., Providence, RI, 2017, Impact Factor NA, AMS ranking NA. 03E45 (03E15 03E60), 18 pages.
5. (with Nam Trang) *Tame failures of the unique branch hypothesis and models of $AD_{\mathbb{R}} + \Theta$ is regular*, Journal of Mathematical Logic, 16 (2016), no 2, 31 pages, Impact Factor 0.900 (2016, wiki), AMS ranking A^* .
6. (with John Steel) *The mouse set conjecture for sets of reals*, Journal of Symbolic Logic 80(2015), n2, 671-683, 12 pages, 4 citations, Impact Factor 0.51 (2015, scijournal.org), AMS ranking A .
7. *Covering with universally Baire operators*, Advances in Mathematics, 268 (2015), 603-665, 62 pages, 2 citations, Impact Factor 1.405 (2015, scijournal.org), AMS ranking A^* .
8. *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, 47 pages, 4 citations, Impact Factor 0.900 (2016, wiki), AMS ranking A^* .
9. (with Nam Trang) *Non-tame mouse from tame failures of the Unique Branch Hypothesis*, Canad. J. Math. 66 (2014), no. 4, 903-923, 20 pages, 5 citations, Impact Factor 0.765 (2014, scijournal.org), AMS ranking A .
10. *An inner model theory proof of the strong partition property at δ_1^2* , Notre Dame Journal of Formal Logic, 55 (2014), no 4, 563-568, 5 pages, Impact Factor 0.538 (2015, scijournal.org), AMS ranking A .

11. (with A. Caicedo, P. Larson, R. Schindler, J. Steel and M. Zeman) *Square principles in \mathbb{P}_{max} extensions*, Israel J. Math. 217 (2017), no. 1, 231-261. 03E60 (03E35 03E45 03E55 03E57), 25 pages, 2 citations, Impact Factor 0.796 (2017, scijournal.org), AMS ranking A.
12. *Descriptive inner model theory*, Bull. Symbolic Logic 19 (2013), no. 1, 1-55, 54 pages, 7 citations, Impact Factor 0.917 (2013, scijournal.org) AMS ranking A.
13. *On the prewellorderings associated with directed systems of mice*, J. Symbolic Logic 78 (2013), no. 3, 735-763, 28 pages, 1 citation, Impact Factor 0.467 (2013, scijournal.org), AMS ranking A.
14. (with A. Apter and M. Gitik) *Indestructible strong compactness but not supercompactness*. Ann. Pure Appl. Logic 163 (2012), no. 9, 1237-1242, 5 pages, 4 citations, Impact Factor 0.504 (2012, scijournal.org), AMS ranking A.
15. (with A. Apter) *An Equiconsistency for Universal Indestructibility*, J. Symbolic Logic 75 (2010), no. 1, 314-322, 8 pages, 4 citations, Impact Factor 0.584 (2010, scijournal.org), AMS ranking A.
16. *On indestructibility aspects of identity crisis*, Arch. Math. Logic 48 (2009), no. 6, 493-513, 20 pages, 1 citation, Impact Factor 0.349 (2009, scijournal.org), AMS ranking B.
17. *On Hod-supercompactness*, Arch. Math. Logic 47 (2008), no. 7-8, 765-768, 3 pages, 4 citations, Impact Factor 0.552 (2008, scijournal.org), AMS ranking B.
18. (with A. Apter) *Universal Indestructibility for Degrees of Supercompactness and Strongly Compact Cardinals*, Archive for Mathematical Logic 47, 2008, 133-142, 19 pages, 19 pages, 2 citations, Impact Factor 0.552 (2008, scijournal.org), AMS ranking B.
19. (with A. Apter) *A reduction in consistency strength for universal indestructibility*, Bulletin of the Polish Academy of Sciences (Mathematics) 55, 2007, 1-6, 5 pages, 2 citations, Impact Factor 0.626 (2009, scijournal.org), AMS ranking C.
20. (with A. Apter) *Identity crises and strong compactness. III. Woodin cardinals*, Archive for Mathematical Logic, V. 45, 2006, 3, 307-322, 15 pages, 3 citations, Impact Factor 0.552 (2008, scijournal.org), AMS ranking B.
21. (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, 5 pages, Impact Factor 0.584 (2008, scijournal.org), AMS ranking A.
22. (with A. Apter) *Jonsson-like partition relations and $j: V \rightarrow V$* , The Journal of Symbolic Logic, V. 69, 2004, 4, 1267-1281, 14 pages, Impact Factor 0.439 (2008 not 2004, scijournal.org), AMS ranking A.
23. *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, 1 page.

REVIEWS

1. *Outline of inner model theory*, mathscinet.
2. *Wadge degrees and projective ordinals*, Bulletin of Symbolic Logic.

INVITED
CONFERENCES AT
RESEARCH
CENTERS

1. XIV International Workshop on Set Theory, 10/09/2017 to 10/13/2017, CIRM, Luminy, France.
2. Set Theory, February 12th - February 16th, 2017, Mathematics Forshungsinstitute Oberwolfach, Germany.
3. XIII International Workshop on Set Theory, 09/29/2014 to 10/03/2014, CIRM, Luminy, France.
4. AIM Workshop on Descriptive Inner Model Theory, 06/02/2014 to 06/09/2014, Palo Alto, California, USA.
5. Set Theory, January 12th - January 18th, 2014, Mathematics Forshungsinstitute Oberwolfach, Germany.
6. ESI 2013, Forcing, Large Cardinals and Descriptive Set Theory, 09/23/2013 to 09/27/2013, Vienna, Austria.
7. XII International Workshop on Set Theory, 09/24/2012 to 09/28/2012, CIRM, Luminy, France.
8. Set Theory, January 9th - January 15th, 2011, Mathematics Forshungsinstitute Oberwolfach, Germany.
9. XI International Workshop on Set Theory, 04/10/2010 to 08/10/2010, CIRM, Luminy, France.
10. 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 AND MINI
COURSES

1. *A gentle introduction to inner model theory, 10th Young Set Theory Workshop, Edinburgh, July 10-14, 2017*
2. *A proof of generation of pointclasses, 4th Münster Conference in Inner Model Theory, Münster, Germany, July 17-Aug 1st, 2017.*
3. *The theory of hod mice below LSA, Berkeley Workshop on Descriptive Inner Model Theory, 06/12/2014 to 06/16/2014, Berkeley, California, USA.*
4. *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.*
5. *Iteration trees, Graduate Summer School in Set Theory, June 25-July 6, 2012, Irvine, CA.*
6. *More on the strength of PFA, Workshop in Inner Model Theory & Descriptive Set Theory, June 1-3, 2012, Denton, TX.*
7. *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, Münster, Germany.*
8. *Hod Mice, 1st conference on Core Model Induction and Hod Mice, July 19- August 06, 2010, Münster, Germany.*

RESEARCH
PROGRAMS AT
MATHEMATICS
INSTITUTES

1. *Mathematical, Foundational and Computational Aspects of the Higher Infinite, Newton Institute, 2015.*
2. *Aspects of descriptive Inner model theory, May 20-24, 2013, SQuaREs Program, American Institute of Mathematics, Palo Alto, CA.*
3. *Aspects of descriptive Inner model theory, April 15-21, 2012, SQuaREs Program, American Institute of Mathematics, Palo Alto, CA.*
4. *Aspects of descriptive Inner model theory, May 20-26, 2011, SQuaREs Program, American Institute of Mathematics, Palo Alto, CA.*

INVITED TALKS

1. tba, A Workshop on Set Theory, Institute for Mathematical Sciences (IMS), Singapore, June 3-14, 2019
2. tba, Special Session On Large Cardinals and Combinatorial Set Theory, AMS Sectional Meeting at the University of Michigan in Ann Arbor, October 20-21, 2018.
3. tba, Set theory today: A conference in honor of Georg Cantor, September 10-14, Vienna, Austria, 2018.
4. *A proof of generation of pointclasses, A conference on the occasion of Ronald B. Jensen's 80th birthday, Münster, Germany, Aug 02-04, 2017.*
5. *Gentle introduction to descriptive inner model theory, Young Set Theory meeting 2017, Edinburgh, July 10-14, 2017.*
6. *Forcing axioms and the Solovay hierarchy, Woodin turns 60, Harvard, March 28, 2015.*

7. *Some new applications of the core model induction, Boise Extravaganza in Set Theory (BEST), 17-19 June 2013, University of Nevada, Las Vegas.*
8. *A covering conjecture, Workshop on Iterated Forcing and Large Cardinals, 12-16 November 2013, Fields Institute, Toronto, Canada.*
9. *The Solovay hierarchy, CUNY Logic Workshop, February 3, 2012, NYC, NY.*
10. *The Solovay hierarchy, Cornell Logic Seminar, November 30, 2011, Ithaca, NY.*
11. *An invitation to inner model theory, Young Set Theory Workshop, March 21-25, 2011, Bonn, Germany.*
12. *On the strength of square, MAMLS at Rutgers, October 16 -17, 2010, Rutgers, New Jersey.*
13. *Descriptive inner model theory, SELS, February 27-28, 2010.*
14. *Descriptive inner model theory, Berkeley Logic Colloquium, March, 2011.*
15. *Descriptive inner model theory, UCLA Logic Colloquium, January 22, 2010.*
16. *The core model induction beyond $L(\mathbb{R})$, Infinitary combinatorics without the axiom of choice, Bonn, Germany June 11-14, 2009.*
17. *The core model induction beyond $L(\mathbb{R})$, Münster, Germany May 27, 2009.*
18. *The core model induction, Boise Extravaganza in Set Theory (BEST), Boise State University March 27-29, 2009.*
19. *Hods of models of determinacy, Steel VIG, UCLA, January 30- February 1, 2009.*
20. *The Mouse Set Conjecture, CUNY Logic Workshop, NYC, November 21, 2008.*
21. *Can a large cardinal be forced from a condition implying its negation?, NY Graduate Student Logic Conference, November 20, 2004.*
22. *On Successor Jonsson Cardinals, CUNY Logic Workshop, March 7, 2003.*

CONFERENCE AND
GRANT
COMMITTEES

1. *Simon Fest, 2017.*
2. *Cherlin Weekend, 2016.*
3. *NSF CoV panel 2016.*
4. *2016 ASL North American Annual Meeting, one of the organizers of the Set Theory Special Session.*
5. *NSF Panel 2014.*
6. *Young Set Theory Workshop 2015, member of the scientific committee.*
7. *MAMLS Conference, Rutgers University, October 25-26, 2014, organizer.*
8. *Young Set Theory Workshop 2014, Bedlewo, May 12th - May 16th, 2014, Bedlewo, Poland, member of the scientific committee.*
9. *2013 Fall Southeastern Section Meeting, Special Session on Set Theory and its Applications, October 5-6, 2013, member of the scientific committee.*
10. *MAMLS Conference, Rutgers University, October 6-7, 2013, organizer.*

11. *Young Set Theory Workshop 2012, CIRM, April 30th - May 4th, 2012, Marseille, France*, member of the scientific committee.
12. *2nd conference on Core Model Induction and Hod Mice, August 08-19, 2011, Münster, Germany*, member of the scientific committee.

REFEREING
WORK

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. Currently supervising Martin Köbler at Rutgers.
2. Fall 2017, Juan Aguiero visited from TU Vienna. We run a seminar on AD^+ .
3. Spring 2017, Honors thesis with Elliot Glazer.
4. Spring 2017, Finished a paper with Sandra Müller.
5. Spring 2016, Dominik Adolf visited Rutgers, we finished a paper.
6. Summer 2015. REU with Elliot Glazer and Ahmed T Khalil.
7. Summer 2014. Worked with Elliot Glazer. He was an undergraduate at Rutgers. We did a reading course in set theory.
8. Fall 2013-2015. Worked with Scott Cramer. He was a postgraduate fellow at Rutgers.
9. Fall 2014. Worked with Daniel Rodriguez. He was a graduate student at CMU.
10. Fall 2014. Worked with Dominik Adolf. He was a postgraduate fellow at UC Berkeley.
11. 2009-2015. Worked with Nam Trang. He was a graduate student at UC Berkeley. Currently postgraduate fellow at UC Irvine.
12. 2012-2015. Worked with Trevor Wilson. He was a postgraduate fellow at UC Irvine.

REFERENEES

1. Itay Neeman
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2. John Steel
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3. Hugh Woodin
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