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EMPLOYMENT

2022–Present Full Professor, University of Wisconsin–Madison
2018–2022 Associate Professor, University of Wisconsin–Madison
Spring 2014 MSRI Postdoc, Mathematical Sciences Research Institute, Berkeley, CA
2013–2018 Assistant Professor, University of Wisconsin–Madison
2010–2013 Van Vleck Visiting Assistant Professor, University of Wisconsin–Madison

EDUCATION

2010 Ph.D., Mathematics, University of California, Berkeley, Advisor: Thomas W. Scanlon
Thesis title: Amalgamation constructions and recursive model theory
2005 B.A., Mathematics, University of California, Berkeley
2003 A.A., Anthropology, Economics, Liberal Arts, West Valley College

RESEARCH PUBLICATIONS

1. Amalgamation constructions and recursive model theory, Ph.D. Thesis, University of California, Berkeley, 2010.
2. New spectra of strongly minimal theories in finite languages, *Annals of Pure and Applied Logic*, 162 (2011), 367–372
3. A new spectrum of recursive models using an amalgamation construction, *Journal of Symbolic Logic*, 76 (2011), 883–896
4. The degrees of categorical theories with recursive models, *Proceedings of the American Mathematical Society*, 141 (2013), 2501–2514
5. The index set of uncountably categorical theories, with Tamvana Makuluni, *Israel Journal of Mathematics*, 196 (2013), 491–498.
6. Recursive spectra of strongly minimal theories satisfying the Zilber trichotomy, with Alice Medvedev, *Transactions of the American Mathematical Society*, 366 (2014), 2393–2417.
7. Decidable models of ω -stable theories, *Journal of Symbolic Logic*, 79 (2014), 186–192.
8. Spectra of theories and structures, with Joseph S. Miller, *Proceedings of the American Mathematical Society*, 143 (2015), 1283–1298.
9. Spectra of atomic theories, with Julia F. Knight, *Journal of Symbolic Logic*, 78 (2013), 1189–1198.
10. Universal computably enumerable equivalence relations, with Steffen Lempp, Joseph S. Miller, Keng Meng Ng, Luca San Mauro, and Andrea Sorbi, *Journal of Symbolic Logic*, 79 (2014), 60–88.
11. The degrees of bi-hyperhyperimmune sets, with Peter Gerdes and Joseph S. Miller, *Annals of Pure and Applied Logic*, 165 (2014), no. 3, 803–811.
12. On the structure of the degrees of relative provability, with Mingzhong Cai, David Diamondstone, Steffen Lempp, and Joseph S. Miller, *Israel Journal of Mathematics*, 207 (2015), 449–478.
13. Computing and dominating the Ryll-Nardzewski function, with Asher Kach, *Algebra and Logic*, 53 (2014), no. 2, 176–183.

14. Separable models of randomizations, with H. Jerome Keisler, *Journal of Symbolic Logic*, 80 (2015) 1149-1181.
15. Spectra of Recursive Models of Disintegrated Strongly Minimal Theories, *Lobachevskii Journal of Mathematics*, 2014, Volume 35, Issue 4, 287-291.
16. Definable closure in randomizations, with Isaac Goldbring and H. Jerome Keisler, *Annals of Pure and Applied Logic*, Volume 166, Issue 3, 2015, 325-341.
17. A local characterization of VC-minimality, with Vincent Guingona, *Proceedings of the American Mathematical Society*, 144 (2016), 2241-2256.
18. The complements of lower cones of degrees and the degree spectra of structures, with Mingzhong Cai, Iskander Sh. Kalimullin, Steffen Lempp, Joseph S. Miller, and Antonio Montalbán, *Journal of Symbolic Logic*, 81 (2016), 997-1006
19. Asymptotic density, computable traceability, and 1-randomness, with Mingzhong Cai, David Diamondstone, Carl Jockusch, and Steffen Lempp, *Fundamenta Mathematicae*, 234 (2016), 41-53
20. Theory spectra and classes of theories, with Mingzhong Cai, David Diamondstone, Steffen Lempp, and Joseph S. Miller, *Transactions of the American Mathematical Society*, 369 (2017), 6493-6510
21. Comparing classes of finite sums, with Dmitriy Dushenin, Cameron Hill, Julia Knight, and Alexander Melnikov, *Algebra and Logic*, Vol. 54, No. 6, January, 2016, 489-501.
22. Strongly minimal theories with recursive models, with Julia F. Knight, *Journal of the European Mathematics Society*, 20 (2018), 1561-1594
23. The complexity of index sets of computably enumerable equivalence relations, with Andrea Sorbi, *Journal of Symbolic Logic*, 81 (2016), 1375-1395
24. Nondensity of double bubbles in the d.c.e. degrees, with Rutger Kuyper, Steffen Lempp, Mariya I. Soskova, and Mars M. Yamaleev, A chapter in the book *Computability and Complexity*, in the Lecture Notes in Computer Science series, 547-562
25. A survey on universal computably enumerable equivalence relations, with Serikzhan Badaev and Andrea Sorbi, A chapter in the book *Computability and Complexity*, in the Lecture Notes in Computer Science series, 418-451
26. On cototality and the skip operator in the enumeration degrees, with Hristo A. Ganchev, Rutger Kuyper, Steffen Lempp, Joseph S. Miller, Alexandra A. Soskova, and Mariya I. Soskova, *Transactions of the American Mathematical Society*, 372 (2019), no. 3, 1631-1670.
27. Jumps of computably enumerable equivalence relations, with Andrea Sorbi, *Annals of Pure and Applied Logic*, 169 (2018), 243-259
28. Independence in Randomizations, with Isaac Goldbring and H. Jerome Keisler, *Journal of Mathematical Logic*, Vol. 19, No. 01, (2019)
29. Hindman's theorem and idempotent types, with Isaac Goldbring, *Semigroup Forum*, Volume 97, 471-47.
30. Definable sets containing productsets in expansions of groups, with Gabriel Conant and Isaac Goldbring, *Journal of Group Theory*, Volume 22 (2019), 63-82.
31. Characterizing the continuous degrees, with Gregory Igusa, Joseph S. Miller, and Mariya I. Soskova, *Israel Journal of Mathematics*, October 2019, Volume 234, Issue 2, pp 743-767
32. Scattered sentences have few separable randomizations, with Isaac Goldbring, Sherwood Hachtman, H. Jerome Keisler, and David Marker, *Archive for Mathematical Logic*, volume 59, pages 743-754 (2020).
33. Joins and meets in the structure of ceers, with Andrea Sorbi, *Computability*, 1 Jan. 2019 : 193 - 241.
34. On Isomorphism Classes of Computably Enumerable Equivalence Relations, with Serikzhan Badaev, *Journal of Symbolic Logic*, 85(1):1-26, June 2019.
35. Effective inseparability, lattices, and pre-ordering relations, with Andrea Sorbi, *Review of Symbolic Logic*, 14(4), 838-865.

36. Trial and error mathematics: dialectical systems and completions of theories, with Jacopo Amidei, Duccio Pianigiani, Luca San Mauro, and Andrea Sorbi, *Journal of Logic and Computation*, 29 (2019), no. 1, 157–184.
37. Limit computations and ultrafilters on ω , with Mingzhong Cai, David Diamondstone, and Noah Schweber, *Computability*, to appear.
38. Spectra of computable models of strongly minimal disintegrated theories in languages of bounded arity, with Steffen Lempp, submitted.
39. The theory of ceers computes true arithmetic, with Noah Schweber and Andrea Sorbi, *Annals of Pure and Applied Logic*, Volume 171, Issue 8, August 2020.
40. Self-full ceers and the uniform join operator, with Noah Schweber and Andrea Sorbi, *Journal of Logic and Computation*, Volume 30, Issue 3, April 2020, Pages 765–783
41. Initial segments of the degrees of ceers, with Andrea Sorbi, *Journal of Symbolic Logic*, 87(3), 1260-1282
42. Building models of strongly minimal theories, with Steffen Lempp and Noah Schweber, *Advanced in Mathematics*, Volume 386, 6 August 2021
43. $[0, n] \cup \{\omega\}$ is a spectrum of a non-disintegrated flat strongly minimal model complete theory in a language with finite signature, with Omer Mermelstein, *Journal of Symbolic Logic*, Volume 86 , Issue 4 , December 2021 , 1632 - 1656.
44. The property “arithmetic is recursive” on a cone, with Matthew Harrison-Trainor and Noah Schweber, *Journal of Mathematical Logic*, Vol. 21, No. 3 (2021)
45. Expanding the reals by continuous functions adds no computational power, with Julia F. Knight, Rutger Kuyper, Joseph S. Miller, Mariya I. Soskova, *Journal of Symbolic Logic*, 2023; 88(3):1083-1102
46. Recursive spectra of flat strongly minimal theories, with Omer Mermelstein, *Proceedings of the American Mathematical Society*, 150 (2022), 381–395
47. The first-order theory of the computably enumerable equivalence relations in the uncountable setting, with Steffen Lempp, Manat Mustafa, and Noah Schweber, *Journal of Logic and Computation*, Volume 32, Issue 1, January 2022, Pages 98–114.
48. Computability and the symmetric difference operator, with Peter Gerdes, Steffen Lempp, Joseph S. Miller, Noah Schweber, *Logic journal of the IGPL*, Volume 30, Issue 3, June 2022, Pages 499–518
49. Complexity profiles and generic muchnik reducibilities, with Joseph S. Miller, Mariya Soskova, and Noah Schweber, *Advanced in Mathematics*, Volume 436 , January 2024.
50. On the structure of computable reducibility on equivalence relations of natural numbers, with Daniel Belin and Luca San Mauro, *Journal of Symbolic Logic*, Volume 88 , Issue 3 , September 2023 , pp. 1038 - 1063
51. Investigating the computable Friedman-Stanley Jump, with Luca San Mauro, *The Journal of Symbolic Logic* , Volume 89 , Issue 2 , June 2024 , pp. 918 - 944.
52. Algorithmically finite, universal, and $*$ -universal groups, with Meng-Che Ho, *Journal of Symbolic Logic*, to appear
53. Two results on complexities of decision problems of groups, with Matthew Harrison-Trainor and Meng-Che Ho, *International Journal of Algebra and Computation*, Vol. 35, No. 02, pp. 311-327 (2025)
54. The Borel complexity of the class of models of first-order theories, with David Gonzalez, Steffen Lempp, Dino Rossegger and Hongyu Zhu, *Proceedings of the American Mathematical Society* 153 (2025), 4013-4024
55. Analogs of the countable Borel equivalence relations in the setting of computable reducibility, with Luca San Mauro, *Proceedings of the American Mathematical Society* 153 (2025), 3577-3593.
56. A jump operator on the Weihrauch degrees, with Steffen Lempp, Alberto Marconi , Joseph S. Miller, and Manlio Valenti, *Computability*, to appear.

57. On computational problems for infinite argumentation frameworks, with Luca San Mauro, various forms accepted at SAFA 2025, FCR 2025, and NMR 2025
58. On the complexity of the grounded semantics for infinite argumentation frameworks, with Luca San Mauro, in 20th Conference in *Theoretical Aspects of Rationality and Knowledge* (TARK 2025)
59. Comparing dialectical systems: Contradiction and counterexample in belief change, with Luca San Mauro, in 19th edition of the *European Conference on Logics in Artificial Intelligence* (JELIA 2025), 2025. (Honorable mention Best Paper Award).
60. SCC-recursiveness in infinite argumentation, with Luca San Mauro, in 19th edition of the *European Conference on Logics in Artificial Intelligence* (JELIA 2025), 2025
61. Complexity in finitary argumentation, with Luca San Mauro, 28th edition of *European Conference on Artificial Intelligence* (ECAI 2025), 2025
62. Complexity in infinite argumentation with structural constraints, with Luca San Mauro, *Journal of Logic and Computation*, to appear
63. Tenability and Weak Semantics: Modeling Non-uniform Defense, with Luca San Mauro and John Spoerl, *23rd International Conference on Principles of Knowledge Representation and Reasoning* (KR 2026), 2026
64. Infinite Belligerent Jump Inversion and Computable Scott Analysis, with David Gonzalez and Hongyu Zhu, submitted
65. An Asymptotic Classification of Stable Semantics, with Meng-Che “Turbo” Ho, submitted
66. On Conjectures of Baumann and Strass on the Expected Number of Stable Extensions in Random Argumentation Frameworks, with Meng-Che “Turbo” Ho, submitted
67. Complexity of Preferred Semantics in Infinite Argumentation, with Luca San Mauro, *11th International Conference on Computational Models of Argument* (COMMA 2026), 2026

HONORS AND AWARDS

- 2025 Best Paper Award Nominee, *European Conference on Logics in Artificial Intelligence* (JELIA 2025), for Comparing Dialectical Systems: Contradiction and Counterexample in Belief Change.
- 2024-2027 National Science Foundation Grant DMS-2348792
- 2023-2024 Fall Research Competition, UW–Madison
- 2021-2026 Simons Foundation award ”Collaborations On The Interactions Between Computability And Model Theory”
- 2019-2020 Fall Research Competition, UW–Madison
 - 2019 Honored Instructor Award from the University of Wisconsin Residence Halls, Fall Semester
 - 2019 Honored Instructor Award from the University of Wisconsin Residence Halls, Spring Semester
- 2017-2019 Educational Innovation Small Grant for redeveloping Math 171 and 217.
- 2016-2021 National Science Foundation Grant DMS-1600228
 - 2016 Honored Instructor Award from the University of Wisconsin Residence Halls
- 2015-2017 Co-PI on Science Committee of the Republic of Kazakhstan Grant GF-4/3952
 - 2013 Honored Instructor Award from the University of Wisconsin Residence Halls
 - 2013 Awarded the title of National Master by the US Chess Federation
- 2012-2015 National Science Foundation Grant DMS-1201338
 - 2012 Oberwolfach Leibniz graduate student grant
 - 2011 ASL Sacks Prize, for most outstanding doctoral dissertation in Logic worldwide in 2010
- 2011-2013 AMS Simons Travel Grant

2011 Honored Instructor Award from the University of Wisconsin Residence Halls
Summer 2008 MATHLOGAPS Fellowship (funded by the European Union)
2005 Dorothea Klumpke Roberts Prize for Undergraduate Scholarship

POSTDOCTORAL ADVISING

Manlio Valenti (2022-2023)
Omer Mermelstein (2018-2021)
Noah Schweber (2016-2019 as NSF postdoctoral fellow)
Yayi Fu (2024-2027)
Isabella Scott (2025-2028)

GRADUATE STUDENT ADVISING

Meng-Che Ho, UW-Madison, model theory and group theory (graduated 2017, currently holds a tenure track position at Towson University)
Tamvana Makuluni, UW-Madison, model theory (graduated 2018)
James Hanson, UW-Madison, model theory (graduated 2020, currently holds a tenure track position at Iowa State University)
Uldana Ostemirova, co-advised, computability theory (graduated 2024, currently a senior lecturer at Kazakh-British Technical University)
Hongyu Zhu, computable model theory (estimated graduation 2028)
Logan Heath, model theory (estimated graduation 2028)
John Spoerl, model theory (estimated graduation 2028)
Alex Vischer, model theory and algebra (estimated graduation 2028)
Yiqing Wang, model theory, MA thesis (graduated 2026)
Sapir Ben Shahr, (estimated graduation 2031)

UNDERGRADUATE THESIS ADVISING

2019-2020 Daniel Belin, University of Wisconsin Madison, Undergraduate research on computable reduction of equivalence relations.
2015-2016 Rebecca Eastham, University of Wisconsin, Madison, Undergraduate thesis on combinatorics and logic.
2013-2014 Eric Katzelnick, University of Wisconsin, Madison, Undergraduate thesis on model theory of modules

SERVICE

2027 Programming Committee for Computability in Europe (CiE)
2025 Chair of Programming Committee for 2026 Association of Symbolic Logic Winter Meeting with JMM
2024 Programming Committee for 2025 North American Annual Meeting of the Association for Symbolic Logic
2020-2025 Organizer of the Madison Math Circle
2022 Lead organizer for AIM workshop “invariant descriptive computability theory”.
September 2019 Co-organizer of special session in Model theory at AMS central sectional meeting.
2018-2019 Educational Innovation Small Grant to overhaul the math 171 and 217 Calculus with “just in time” precalculus series.
2016 Course development for the new course Math 570, Introduction to Set Theory.
October 2015 Co-organizer of special session on Model Theory for ASL sectional meeting, Chicago, IL

- April 2015 Co-organizer of special session on Recursion Theory for annual ASL meeting, Urbana, IL
- August 2013 Co-organizer (with Julia Knight and M. Chris Laskowski) of AIM Conference: Computable Stability Theory
- 2012 Organizing committee for ASL Annual Meeting in Madison, WI
- Since 2011 Regular speaker at the Madison Math Circle
- 2011-2012 Putnam club coach at the University of Wisconsin, Madison (2011 team ranking 39, up from 93 in the previous year)
- 2011 Developed curricular materials for the “Calculus with Algebra and Trigonometry” series at the University of Wisconsin, Madison
- Since 2010 Co-organizer of the semesterly Midwest Model Theory Day Conference, University of Illinois, Chicago

SELECTED INVITED TALKS

- 6/2021 The global structure of equivalence relations under computable reducibility, Equivalences, Numberings, Reducibilities, Udine, Italy
- 11/2020 On “free” effectivity in enumerations of Scott sets, MSRI Program on Decidability, definability and computability in number theory
- 9/2020 Cardinal characteristics and the generic Muchnik degrees, MSRI Program on Decidability, definability and computability in number theory
- 8/2020 Complexity profiles and the generic Muchnik degree, MSRI Program on Decidability, definability and computability in number theory
- 1/2018 On building models of Solovay theories, Oberwolfach, Germany
- 8/2016 Tutorial series of 3 lectures: “Computable Model Theory” at the Logic Colloquium, ASL European Summer Meeting, Leeds, UK
- 6/2016 Spectra of recursive models of trichotomous strongly minimal theories, Workshop in Computability Theory, Ghent, Belgium
- 1/2016 Connections Between Computation and Geometry, Computability Complexity and Randomness Workshop, Honolulu, HI
- 6/2015 Tutorial series on computability theory for Vaught’s conjecture, Vaught’s conjecture workshop, Berkeley, CA
- 6/2014 Spectra of recursive models of disintegrated strongly minimal theories, Algebra and Mathematical Logic: Theory and Applications, Kazan, Russia
- 5/2014 Computable Stability Theory: A tutorial series, Algebra and Mathematical Logic: Theory and Applications, Kazan, Russia
- 3/2014 Relative recursiveness of models of strongly minimal theories, MSRI program in model theory, arithmetic geometry and number theory, Berkeley, CA
- 11/2013 Relative recursiveness of models of strongly minimal theories, Banff workshop on Computable Model Theory, Banff, Alberta, Canada
- 9/2013 A hop, skip, and a jump through the degrees of relative provability, Mathematics Department Colloquium, University of Wisconsin, Madison
- 8/2013 Introductory talk for workshop in Computable Stability Theory, AIM conference on Computable Stability Theory, Palo Alto, CA
- 5/2013 Relative computability of models of strongly minimal theories, Buenos Aires semester in Computability, Complexity and Randomness, Buenos Aires, Argentina
- 5/2013 Spectra of theories, North American Annual ASL Meeting, Plenary Speaker, Waterloo, Ontario, Canada
- 4/2013 Recursively presenting models of Solovay theories, AMS Sectional Meeting, Ames, Iowa

- 4/2013 A hands on approach to definability in randomizations, Midwest Model Theory Day, Chicago, IL
- 1/2013 Recursive spectra of strongly minimal theories satisfying the Zilber trichotomy, Joint Math Meetings, San Diego, CA
- 7/2012 Contributions to Two Questions of Goncharov, Workshop on Computable Model Theory, Novosibirsk, Russia
- 7/2012 Randomizations of Theories with Countably Many Countable Models, Novosibirsk Model Theory Seminar, Novosibirsk, Russia
- 6/2012 Universal Computably Enumerable Equivalence Relations, 15th Latin American Symposium on Mathematical Logic, Bogotá, Colombia
- 5/2012 Amalgamation Constructions Coding the Arithmetical Hierarchy, Workshop on Definability in Computable Structures, University of Chicago, Chicago, IL
- 5/2012 Recursive Spectra of Strongly Minimal Theories Satisfying the Zilber Trichotomy, Conference on Definability in Computable Structures, University of Chicago, Chicago, IL
- 2/2012 Amalgamation Constructions and Recursive Model Theory, Computability Theory Meeting, Oberwolfach, Germany
- 1/2012 Amalgamation Constructions and the Degrees of Categorical Theories with Recursive Models, UCLA Logic Colloquium
- 12/2011 Computable Stability Theory, Asian Logic Colloquium, Wellington, New Zealand
- 11/2011 Computable Stability Theory, Marquette University Colloquium, Milwaukee, WI
- 8/2011 Computability of the Model Theory of Groups, Geometric Group Theory and Logic, Chicago, IL
- 5/2011 Decidable Models of ω -stable Theories, Midwest Model Theory Weekend Conference, Columbus, OH
- 3/2011 Computable Stability Theory, Special Session on Model Theory, 2011 ASL Annual Meeting, Berkeley, CA
- 2/2011 (Ah)madness, Midwest Computability Theory Conference, Chicago, IL
- 2/2011 (Ah)madness, 2011 VIG Conference Honoring Yiannis Moschovakis, UCLA
- 9/2010 Computable Stability Theory, Mathematics Department Colloquium, University of Wisconsin, Madison
- 10/2008 Amalgamation Constructions and Recursive Model Theory, Special Session on Computability Theory and Effective Algebra, AMS Sectional Meeting, Middletown, CT

TEACHING

University of Wisconsin, Madison (Instructor)

- Spring 2026 Modern Algebra II
- Fall 2025 Model Theory (graduate course)
- Spring 2025 Modern Algebra
- Fall 2024 Model Theory (graduate course)
- Spring 2024 Topics in Logic: Invariant Descriptive Computability Theory (graduate course)
- Fall 2023 Model Theory (graduate course)
- Spring 2023 Modern Algebra
- Fall 2022 Model Theory (graduate course)
- Spring 2022 Model Theory (graduate course)
- Spring 2021 Calculus II
- Fall 2020 Trigonometry
- Fall 2019 Calculus With ALgebra and Trigonometry I
- Spring 2019 Two lectures of Calculus II

Fall 2018 Introduction to Mathematical Logic (graduate course)
 Spring 2017 Model Theory (graduate course)
 Spring 2017 Calculus I
 Fall 2016 Set Theory
 Fall 2016 Continuous Model Theory (graduate course)
 Spring 2016 Model Theory (graduate course)
 Fall 2015 Calculus With Algebra and Trigonometry I
 Spring 2015 Model Theory (graduate course)
 Fall 2014 Models of Arithmetic (graduate course)
 Fall 2014 Introduction to Mathematical Logic (graduate course)
 Fall 2013 Recursion Theory (graduate course)
 Fall 2013 Mathematical Logic
 Spring 2013 Modern Algebra II
 Spring 2013 Analysis I
 Fall 2012 Applied Model Theory (graduate course)
 Fall 2012 Analysis I
 Spring 2012 Linear Algebra and Differential Equations
 Fall 2011 Introduction to Mathematical Logic (graduate course)
 Fall 2011 Model Theory and Algebraic Geometry (graduate course)
 Spring 2011 Model Theory (graduate course)
 Spring 2011 Calculus With Algebra and Trigonometry II
 Fall 2010 Computable and Classical Model Theory (graduate course)
 Fall 2010 Calculus With Algebra and Trigonometry I

University of California, Berkeley (Instructor)

Summer 2009 Number Theory
 Summer 2006 Analytic Geometry and Calculus 1

WORKSHOPS ATTENDED BY INVITATION

2022 New directions in computability theory, Luminy, France
 2021 Computability Theory, Oberwolfach, Germany
 2020 MSRI Program on Decidability, definability and computability in number theory, Berkeley, CA
 2018 Computability Theory, Oberwolfach, Germany
 2017 Computability Theory, Dagstuhl, Germany (not attended)
 2016 Computability Complexity and Randomness, Honolulu, HI
 2015 Neostability Theory Workshop, Banff International Research Station, Oaxaca, Mexico
 2014 Algebra and Mathematical Logic: Theory and Applications, Kazan, Russia
 2014 MSRI Postdoc at Model Theory, Arithmetic Geometry and Number Theory workshop, Berkeley CA
 2013 Banff workshop on Computable Model Theory, Banff, Alberta, Canada
 2013 AIM workshop on Computable Stability Theory, Palo Alto, CA
 2013 Buenos Aires Semester in Computability, Complexity and Randomness, Buenos Aires, Argentina

2012 Computable Model Theory, Novosibirsk State University, Novosibirsk, Russia
2012 Definability in Computable Structures, University of Chicago, Chicago, IL
2012 Computability Theory, Oberwolfach, Germany
2011 Reverse Mathematics, University of Chicago, Chicago, IL
2011 Geometric Group Theory and Logic, University of Illinois, Chicago
2010 Model Theory of Fields, Mathematics Research Communities, Snowbird Resort, Utah
2009 Reverse Mathematics: Foundations and Applications, University of Chicago, Chicago, IL
2009 Winter School in o-minimal Geometry, Fields Institute, Toronto, Canada
2008 MODNET Summer School, Manchester Institute for Mathematical Sciences, Manchester, England
2007 Workshop on Model Theory and Computable Model Theory, University of Florida, Gainesville, FL