

CURRICULUM VITAE

NATASHA DOBRINEN

EDUCATION

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| Ph.D. in Mathematics, University of Minnesota
Thesis Advisor: Karel Prikry
Thesis title: “Generalized weak distributive laws in Boolean algebras and issues related to a problem of von Neumann regarding measurable algebras.” | July 2001 |
| B.A. in Mathematics, High Honors, University of California - Berkeley
Honor’s Thesis Advisor: Richard E. Borcherds
Honor’s Thesis title: “The prime number theorem.” | May 1996 |

EMPLOYMENT

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|---|-------------------|
| University of Notre Dame, Department of Mathematics
Full Professor | 2022–present |
| University of Denver, Department of Mathematics
Full Professor | 2016–2022 |
| Associate Professor | 2011–2016 |
| Assistant Professor | 2007–2011 |
| Kurt Gödel Research Center for Mathematical Logic
University of Vienna, Austria
FWF Postdoctoral Fellowship
Research Mentor: Sy-David Friedman | October 2004–2007 |
| The Pennsylvania State University
NSF VIGRE Chowla Research Assistant Professor
Research Mentor: Stephen G. Simpson | 2001–2004 |
| University of Minnesota
Teaching Assistant | 1996–2001 |

POSITIONS OF TRUST

Editor

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| • Coordinating Editor for Annals of Pure and Applied Logic | 2020–present |
| • Order | 2022–present |
| • Notre Dame Journal of Formal Logic | 2025–present |

Association for Symbolic Logic

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| • President | 2025–2027 |
| • Vice-President | 2022–2024 |
| • Chair of North American Committee on Logic | 2018–2020 |
| • Council Member | 2018–2020 |
| • Member of North American Committee on Logic | 2014–2017 |
| • Member of the Web Advisory Committee | 2014–2017 |

BLAST Conference Series

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| • Founder (with N. Galatos) and Core Group Member | 2008–present |
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Chair of Program Committees including

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| • Association for Symbolic Logic Winter Meeting | 2020 |
| • BLAST Conference at the University of Denver | 2018 |
| • Conference on Infinitary Ramsey Theory | 2014 |

HONORS AND AWARDS

- Distinguished Women in Math Lecture, UCLA February 2023
- Panelist in the European Set Theory Society Colloquium January 14, 2023
for World Logic Day
- International Congress of Mathematicians, Invited Speaker 2022
- National Academies of Sciences, Engineering and Medicine 2019
Mathematical Frontiers Webinar Panelist on *Logic and Foundations*
- Nominee for Robin Morgan Outstanding Woman Award, University of Denver 2018
- HERS Institute 2017
Nominated and accepted to participate in training for women leaders in universities
- Excellence in Research Award 2016
University of Denver, Division of Natural Sciences and Mathematics
- Visiting Fellow, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK 2015
Program in Mathematical, Foundational and Computational aspects of the Higher Infinite
- Nominee for Excellence in Research Award 2013
University of Denver, Division of Natural Sciences and Mathematics
- Outstanding Teaching Award, University of Minnesota 2001
- Φ BK UC Berkeley 1996

INDIVIDUAL RESEARCH GRANTS

- National Science Foundation Grant, P.I. September 2023 - August 2026
Logic, Ramsey Theory, and Relational Structures, \$309,000
- National Science Foundation Grant, P.I. September 2019 - August 2023
Logic, Ramsey Theory, and Relational Structures, \$158,476
- University of Denver PROF Grant June 2020 - May 2022
Ramsey Theory of Infinite Structures, \$20,000
- National Science Foundation Grant, P.I. September 2016 - August 2019
Ramsey Theory, Set Theory and Tukey Order, \$129,995
- National Science Foundation Grant, P.I. September 2013 - August 2016
Ramsey Theory, Set Theory and Tukey Order, \$114,368
- Simons Foundation Collaboration Grant, P.I. September 2012 - August 2017
Classification of Tukey types of ultrafilters, \$35,000
(Terminated September 1, 2013 due to NSF grant)
- Association for Women in Mathematics/National Science Foundation 2010
Mentoring Grant, P.I., \$2,800
- University of Denver Faculty Research Fund Grant, P.I., \$3,000 2009
- Marsico Medium-Term Visiting Scholar Grant, P.I., \$3,000 2009

CONFERENCE GRANTS

- Banff Workshop on Infinite Structural Ramsey Theory 2025
Funding from BIRS

- Four National Science Foundation Grants, Co-P.I. 2008–2027
BLAST Conference 3-year cycle
- National Science Foundation Grant, P.I. 2014
Infinitary Ramsey Theory Conference, University of Denver, \$10,200
- University of Denver Sesquicentennial Provost Fund Grant, P.I. 2014
for the Ramsey Theory Conference at the University of Denver, \$3,000
- National Science Foundation Grant, Co-P.I. 2008
for the first BLAST Conference at the University of Denver, \$27,000

ADVISING/MENTORING

- **Postdoctoral Mentor**
 - Daniel Hathaway (2015 - 2018)
 - José Mijares (2013 - 2015)
- **PhD Advisor**
 - Tan Özalp, Univ. Notre Dame (present)
 - Dominic Scarcelli, Univ. Notre Dame (present)
 - Jenny Xu, Univ. Notre Dame (present)
 - Sonia Navarro Flores, UNAM–Morelia, (PhD 2020)
 - Timothy Trujillo, Univ. Denver, (PhD 2014)
- **Masters Thesis Advisor**
 - Sonia Navarro Flores (MS 2015)
- **Research Mentor**
 - Professor Kaiyun Wang, Shaanxi Normal University, China (2018 - 2019)
 - Professor Jennifer Brown, California State University - Channel Islands (2013 - 2014)

INVITATIONS TO RESEARCH PROGRAMS

- Casa Matematica Oaxaca September 2026
Set theory and its applications to algebra and analysis
- CIRM, Luminy, France November 2025
The 18th International Workshop in Set Theory
- Erwin Schrödinger Institute, Vienna, Austria July 2025
Program on Reverse Mathematics
- Arctic Set Theory V, Kilpisjärvi, Finland February 2025
- Oberwolfach Workshop in Set Theory January 2025
- CIRM, Luminy, France October 2023
The 17th International Workshop in Set Theory
- Casa Matematica Oaxaca August 2023
Set-Theoretic Topology
- Institute for Mathematical Sciences, Singapore July 2023
from omega to Omega
- American Institute of Mathematics, Caltech, CA May 2023
From $\aleph_2$ to infinity
- Fields Institute, Toronto, Canada January–June 2023
Thematic Program on Set Theoretic Methods in Algebra, Dynamics and Geometry
- American Institute of Mathematics, Palo Alto, CA June 2022
Descriptive Graph Theory

- Arctic Set Theory V, Kilpisjärvi, Finland February 2022
- Oberwolfach Workshop in Set Theory, Germany January 2022
- CIRM, Luminy, France September 2021
The 16th International Workshop in Set Theory
- Oberwolfach Workshop in Set Theory, Germany April 2020
Postponed due to the Pandemic
- CIRM, Luminy, France September 2019
The 15th International Workshop in Set Theory
- Casa Matemática de Oaxaca, Mexico September 2019
Workshop on Reverse Mathematics of Combinatorial Principles
- Casa Matemática de Oaxaca, Mexico August 2019
Set theory of the reals
- Banff International Research Station, Canada November 2018
Unifying Themes in Ramsey Theory
- The Netherlands Royal Academy of Sciences, Amsterdam August 2018
Generalised Baire Spaces
- Bertinoro International Center for Informatics, Italy July 2018
Ramsey Theory in Logic, Combinatorics and Complexity
- CIRM, Luminy, France November 2017
The 14th International Workshop in Set Theory
- American Institute of Mathematics, Palo Alto, CA August 2017
Nonstandard methods in combinatorial number theory
- Charles University, Prague, Čech Republic December 2016
Ramsey DocCourse Prague 2016
- Centre de Recerca Matemàtica, Barcelona, Spain December 2016
IRP on Large Cardinals and Strong Logics
- Casa Matemática de Oaxaca, Mexico September 2016
Workshop on Set Theory and Its Applications in Topology
- Isaac Newton Institute, Cambridge, UK August, November, December 2015
Mathematical, Foundational and Computational Aspects of the Higher Infinite
- American Institute of Mathematics, Palo Alto, CA June 2014
Workshop on Inner Models and Descriptive Set Theory
- Oberwolfach Workshop in Set Theory, Germany January 2014
- Fields Institute, Canada July - December 2012
Thematic Program on Forcing and Its Applications
- Mittag-Leffler Institute, Sweden November - December 2009
Semester on Set Theory and Model Theory
- Oberwolfach Workshop in Set Theory, Germany December 2005
- American Institute of Mathematics, Palo Alto, CA December 2004
Recent Advances in Core Model Theory

INVITED RESEARCH VISITS

• Andy Zucker, University of Waterloo	October 2023
• Tom Benhamou, University of Illinois Chicago	April 2023
• Menachem Magidor, The Hebrew University of Jerusalem	December 2019
• Saharon Shelah, Rutgers University	October 2019
• Carlos Di Prisco, Universidad de los Andes, Bogotá, Colombia	August 2019
• Aisling McCluskey, National University of Ireland, Galway	August 2019
• Julia Knight, University of Notre Dame	March 2019
• Dana Bartošová, Douglas Cenzer, and Jindřich Zapletal, University of Florida	February 2019
• Michael Hrušák, National University of Mexico, Morelia	December 2018
• Norbert Sauer, University of Calgary, Canada	November 2018
• Julia Knight, University of Notre Dame	September 2018
• Aisling McCluskey, National University of Ireland, Galway	December 2017
• Jaroslav Nešetřil, Charles University, Prague	July 2017
• Sławomir Solecki, University of Illinois - Urbana Champaign	March 2017
• Andrew Brooke-Taylor, University of Leeds	January 2017
• Ziqin Feng, University of Auburn, Alabama	April 2016
• Vera Fisher, Technisches Universität, Vienna, Austria	February 2015
• Norbert Sauer, University of Calgary, Canada	August 2014
• Vera Fisher, Technisches Universität, Vienna, Austria	July - August 2014
• Norbert Sauer, University of Calgary, Canada	January - February 2014
• Sheila Miller, City University of New York	October 2013
• Steffen Lempp, University of Wisconsin	October 2013
• Andreas Blass, University of Michigan	February 2012
• Stevo Todorćević, Université of Paris VII	July - August 2011
• Stevo Todorćević, Université of Paris VII	June - August 2010
• Stevo Todorćević, Université of Paris VII	December 2010
• Alexander Kechris, California Institute of Technology	January 2010
• Stevo Todorćević, Université Paris VII	July - August 2009
• Sy-David Friedman, University of Vienna	June 2009
• Kenneth Kunen, University of Wisconsin	April 2009
• Stevo Todorćević, University of Toronto	March 2009
• Stevo Todorćević, Université Paris VII	November - December 2008
• Stevo Todorćević, Université Paris VII	July 2008
• Stevo Todorćević, University of Toronto	January - March 2008
• Joan Bagaria, ICREA, Barcelona	March 2005
• Bohuslav Balcar, Academy of Sciences of the Czech Republic, Prague	August 2003
• Elizabeth Brown and Marcia Groszek, Dartmouth College	May 2003
• Bohuslav Balcar, Academy of Sciences of the Czech Republic, Prague	August 2002

CONFERENCE ORGANIZING

Organizer and Committee Member

- Program Committee Member. 2026 European Set Theory Conference 2025–2026
- Infinite Structural Ramsey Theory Workshop, BIRS Banff November 2025
Co-organizer (with Jan Hubička, Stevo Todorčević, and Andy Zucker)
- Program Committee Member. 2025 ASL Winter Meeting at the JMM 2023–2024
- Scientific Committee Member. 2024 Logic Colloquium 2023–2024
- Scientific Committee Member. 2024 Young Set Theory Workshop 2023–2024
- Scientific Committee Member. BEST Conference Series 2018–2023
- Co-chair (with Dana Bartošová). AMS Western Sectional May 2022
Program Committee for Special Session on Ramsey Theory of Infinite Structures
- Co-chair (with Lynne Yengulalp). Spring Topology and Dynamics Conference 2021
Program Committee for Special Session on Set-theoretic Topology
- Chair of Program Committee. Association for Symbolic Logic Winter Meeting 2020
- Chair of Organizing and Program Committees. BLAST 2018, University of Denver 2018
- Program Committee Member. 2017
SLALM (Latin American Symposium on Mathematical Logic)
- Organizer (with Daniel Hathaway). AMS Western Sectional October 2016
Special Session in Set Theory of the Reals, University of Denver
- Organizer (with José Mijares). May 2014
Ramsey Theory Conference, University of Denver, Colorado
- Member of the Organizing Committee. BLAST August 2013
Chapman University, Orange, California
- Organizer. AMS Western Sectional Special Session April 2013
in Set Theory and Boolean Algebras, University of Colorado - Boulder
- Member of the Organizing Committee. January 2012
Association for Symbolic Logic Winter Meeting
- Organizer (with Bart Kastermans). Maximally Informal Gathering (MIG) 2009–2016
*a Logic Seminar joint with Colorado State University, CU Boulder,
and the University of Denver*

BLAST Conference Series

2008–present

*An ongoing NSF-funded conference series focused on
Boolean algebras, Lattices, universal Algebra, Set theory, and Topology.*

- Chair of Program Committee 2018
- Program Committee Member 2008, 2011, 2013
- Founder (with Nikolaos Galatos) 2008

PUBLICATIONS

PREPRINTS AND PAPERS TO BE SUBMITTED SOON

- [56] Tom Benhamou, Natasha Dobrinen, and Tan Özalp. Big Ramsey degrees of binary relational structures on measurable cardinals.
- [55] Peter Cholak, Natasha Dobrinen, and Charles McCoy. The Henson graphs: colorings and codings. 20 pp.
- [54] Martin Balko, David Chodounský, Natasha Dobrinen, Jan Hubička, Matěj Konečný, Jaroslav Nešetřil, Andy Zucker. Ramsey theorem for trees with successor operation. 37 pp. <https://arxiv.org/abs/2311.06872.pdf>.

SUBMITTED ARTICLES

- [53] Tom Benhamou, Natasha Dobrinen, and Tan Özalp. Tukey-idempotency and strong p-points. 15 pp. <http://arxiv.org/abs/2511.01050>.
- [52] David Chodounský, Natasha Dobrinen, Monroe Eskew, and Thilo Weinert. Big Ramsey degrees of pseudotrees. 23 pp. <http://arxiv.org/abs/2503.22626>.
- [51] Natasha Dobrinen and Andy Zucker. Infinite-dimensional Ramsey theorems for finitely restricted binary relational structures with FAP. 49pp. <https://arxiv.org/pdf/2303.04246.pdf>.

ARTICLES UNDER REVISION

- [50] Natasha Dobrinen. Infinite-dimensional Ramsey theory for homogeneous structures with SDAP^+ . 30 pp. <https://arxiv.org/pdf/2203.00169.pdf>.
- [49] Natasha Dobrinen and Saharon Shelah. The Halpern–Läuchli Theorem at singular cardinals and failures of weak versions. 15 pp. *Journal of Symbolic Logic*. <https://arxiv.org/pdf/2209.11226.pdf>.
- [48] Rebecca Coulson, Natasha Dobrinen, and Rehana Patel. Fraisse Structures with SDAP^+ , Part II: Simply characterized big Ramsey structures characterized big Ramsey structures. 59 pp. *Israel Journal of Mathematics*. <https://arxiv.org/pdf/2207.06505.pdf>.
- [47] Rebecca Coulson, Natasha Dobrinen, and Rehana Patel. Fraisse Structures with SDAP^+ , Part I: Indivisibility 56 pp. *Israel Journal of Mathematics*. <https://arxiv.org/pdf/arXiv:2207.06393.pdf>.

PUBLISHED/ACCEPTED ARTICLES

- [46] Martin Balko, David Chodounský, Natasha Dobrinen, Jan Hubička, Matěj Konečný, Lluís Vena, and Andy Zucker. Characterisation of the big Ramsey degrees of the generic partial order. *Transactions of the American Mathematical Society*, 24 pp. To appear.
- [45] Tom Benhamou and Natasha Dobrinen. On the Tukey types of Fubini products. *Proceedings of the American Mathematical Society, Series B*. 12 (2025), 103–117.
- [44] Martin Balko, David Chodounský, Natasha Dobrinen, Jan Hubička, Matěj Konečný, Lluís Vena, and Andy Zucker. Exact big Ramsey degrees via coding trees. 53 pp. <https://arxiv.org/pdf/2110.08409.pdf>. *Journal of the European Mathematical Society*, online first: 8 August 2024.
- [43] Tom Benhamou and Natasha Dobrinen. Cofinal types of ultrafilters over measurable cardinals. 34 pp. <https://arxiv.org/abs/2304.07214>.

To appear in *Journal of Symbolic Logic*.

- [42] Natasha Dobrinen, John Krueger, Pedro Marun, Miguel Angel Mota, and Jindrich Zapletal. On the Consistency Strength of $\text{MM}(\omega_1)$. *Proceedings of the American Mathematical Society*. 152 (2024), no. 5, 2229–2237.
- [41] Natasha Dobrinen and Kaiyun Wang. Big Ramsey degrees in universal inverse limit structures. *Archive for Mathematical Logic*. 62 (2023), no. 3-4, 471–503.
- [40] Natasha Dobrinen. The Ramsey theory of Henson graphs. *Journal of Mathematical Logic*. 23 (2023), no. 1, Paper No. 2250018, 88 pp.
- [39] Natasha Dobrinen. Ramsey theory of homogeneous structures: Current trends and open problems. *Proc. Int. Cong. Math.* 2022, Vol. 3, pp. 1462–1486. <https://doi.org/10.4171/icm2022/108>
- [38] Natasha Dobrinen and Sonia Navarro Flores. Ramsey degrees of ultrafilters, pseudointersection numbers, and the tools of topological Ramsey spaces. *Archive for Mathematical Logic*. 61 (2022), no. 7-8, 1053–1090.
- [37] Natasha Dobrinen. Borel sets of Rado graphs and Ramsey’s Theorem. To appear in *European Journal of Mathematics*, special issue for Prague 2016 Ramsey Theory DocCourse. 29 pp. <https://arxiv.org/pdf/1904.00266.pdf>.
- [36] Martin Balko, David Chodounský, Natasha Dobrinen, Jan Hubička, Matěj Konečný, Lluís Vena, and Andy Zucker. Big Ramsey degrees of the generic partial order. In *Extended Abstracts EuroComb 2021*, pp 637–643. Springer, Ed: J. Nešetřil, G. Perarnau, J. Rué, and O. Serra. 2021.
- [35] Natasha Dobrinen and Daniel Hathaway. Classes of barren extensions. *Journal of Symbolic Logic*. 86 (2021), no. 1, 178–209.
- [34] Natasha Dobrinen. Ramsey theory on infinite structures and the method of strong coding trees. In *Contemporary Logic and Computing*, pp 444–467. College Publications, Ed: A. Rezus. 2020.
- [33] Natasha Dobrinen and William Gasarch. When Ramsey Theory Fails Settle for More Colors (Big Ramsey Degrees!). *ACM SIGACT News*, Open Problems Column. 51 (2020) no. 4, 30–46.
- [32] Natasha Dobrinen. The Ramsey theory of the universal homogeneous triangle-free graph. *Journal of Mathematical Logic*. 20 (2020), no. 2, 2050012, 75 pp.
- [31] Natasha Dobrinen, Daniel Hathaway, and Karel Prikry. Perfect tree forcings for singular cardinals. *Annals of Pure and Logic*. 171 (2020), no. 9, 102827, 25 pp.
- [30] Natasha Dobrinen and Daniel Hathaway. Forcing and the Halpern-Läuchli Theorem. *Journal of Symbolic Logic*. 85 (2020), no. 1, 87–102.
- [29] Natasha Dobrinen. Continuous and other finitely generated canonical cofinal maps on ultrafilters. *Fundamenta Mathematicae*. 249 (2020), no. 2, 111–147.
- [28] Natasha Dobrinen. Topological Ramsey spaces dense in forcings. In *Structure and Randomness in Computability and Set Theory*, pp 3–58. World Scientific, Ed: D. Cenzer and J. Zapletal. 2020.
- [27] Alvaro Arias, Natasha Dobrinen, Gabriel Girón Garnica, and José Mijares. Banach spaces from high-dimensional Ellentuck spaces. *Journal of Logic and Analysis*. 10 (2018), Paper no. 5, 42 pp.

- [26] Natasha Dobrinen. Forcing in Ramsey theory.
Proceedings of 2016 RIMS Symposium on Infinite Combinatorics and Forcing Theory, Kyoto, Japan, (2017) 17 pp. (Invited expository paper related to the author's tutorial)
- [25] Natasha Dobrinen and Daniel Hathaway. The Halpern-Läuchli Theorem at a measurable cardinal.
Journal of Symbolic Logic. 82 (2017), no. 4, 1560–1575.
- [24] Natasha Dobrinen, Jose Mijares, and Timothy Trujillo. Topological Ramsey spaces from Fraïssé classes, Ramsey-classification theorems, and initial structures in the Tukey types of p-points.
Archive for Mathematical Logic, special issue in honor of James Baumgartner. 55 (2017), no. 7-8, 733–782. (Invited submission)
- [23] Natasha Dobrinen. Creature forcing and topological Ramsey spaces.
Topology and Its Applications, special issue in honor of Alan Dow. 213 (2016) 110–126. (Invited submission)
- [22] Jennifer Brown and Natasha Dobrinen. Spectra of Tukey types of ultrafilters on Boolean algebras.
Algebra Universalis. 75 (2016), no. 2, 419–438.
- [21] Natasha Dobrinen. Infinite dimensional Ellentuck spaces and Ramsey-classification theorems.
Journal of Mathematical Logic. 16 (2016), no. 1, 1650003. 37 pp.
- [20] Natasha Dobrinen, Claude Laflamme, and Norbert Sauer. Rainbow Ramsey simple structures.
Discrete Mathematics. 339 (2016), no. 11, 2848–2855.
- [19] Natasha Dobrinen. High dimensional Ellentuck spaces and initial chains in the Tukey structure of non-p-points.
Journal of Symbolic Logic. 81 (2016), no. 1, 237–263.
- [18] Andreas Blass, Natasha Dobrinen, and Dilip Raghavan. The next best thing to a P-point.
Journal of Symbolic Logic. 80 (2015), no. 3, 866–900.
- [17] Natasha Dobrinen. Survey on the Tukey theory of ultrafilters.
Zbornik Radova, Mathematical Institute of the Serbian Academy of Sciences, Special issue on *Selected Topics in Combinatorial Analysis*. 17 (2015), no. 25, 53–80. (Invited submission)
- [16] Natasha Dobrinen and Jose Mijares. Topological Ramsey spaces and metrically Baire sets.
Journal of Combinatorial Theory, Series A. 135 (2015) 161–180.
- [15] Natasha Dobrinen and Stevo Todorćević. A new class of Ramsey-classification Theorems and their applications in the Tukey theory of ultrafilters, Part 2.
Transactions of the American Mathematical Society. 367 (2015), no. 7, 4627–4659.
- [14] Natasha Dobrinen and Stevo Todorćević. A new class of Ramsey-classification Theorems and their applications in the Tukey theory of ultrafilters, Part 1.
Transactions of the American Mathematical Society. 366 (2014), no. 3, 1659–1684.
- [13] Natasha Dobrinen and Stevo Todorćević. A new class of Ramsey-classification Theorems and their applications in the Tukey theory of ultrafilters, Parts 1 and 2.
Electronic Notes in Discrete Mathematics. 43 (2013) 107–112.
- [12] Natasha Dobrinen and Stevo Todorćević. Tukey types of ultrafilters.
Illinois Journal of Mathematics. 55 (2011), no. 3, 907–951.
- [11] Natasha Dobrinen and Sy-David Friedman. The consistency strength of the tree property at the double successor of a measurable cardinal.
Fundamenta Mathematicae. 208 (2010), no. 2, 123–153.

- [10] Natasha Dobrinen and Sy-David Friedman. Homogeneous iteration and measure one covering relative to HOD.
Archive for Mathematical Logic. 47 (2008), no. 7-8, 711–718.
- [9] Natasha Dobrinen. Global co-stationarity of the ground model from a new countable length sequence.
Proceedings of the American Mathematical Society. 136 (2008), no. 5, 1815–1821.
- [8] Natasha Dobrinen and Sy-David Friedman. Internal consistency and global co-stationarity of the ground model.
Journal of Symbolic Logic. 73 (2008), no. 2, 512–521.
- [7] Natasha Dobrinen. κ -stationary subsets of $\mathcal{P}_\kappa\lambda$, infinitary games and distributive laws in Boolean algebras.
Journal of Symbolic Logic. 73 (2008), no. 1, 238–260.
- [6] Natasha Dobrinen. More ubiquitous undetermined games and other results on uncountable length games in Boolean algebras.
Note di Matematica. 27 (2007), suppl. 1, 65–83.
- [5] James Cummings and Natasha Dobrinen. The hyper-weak distributive law and a related game in Boolean algebras.
Annals of Pure and Applied Logic. 149 (2007), no. 1-3, 14–24.
- [4] Natasha Dobrinen and Sy-David Friedman. Co-stationarity of the ground model.
Journal of Symbolic Logic. 71 (3) (2006), no. 3, 1029–1043.
- [3] Natasha Dobrinen and Stephen G. Simpson. Almost everywhere domination.
Journal of Symbolic Logic. 69 (2004), no. 3, 914–922.
- [2] Natasha Dobrinen. Complete embeddings of the Cohen algebra into three families of c.c.c., non-measurable Boolean algebras.
Pacific Journal of Mathematics. 214 (2004), no. 2, 201–222.
- [1] Natasha Dobrinen. Games and general distributive laws in Boolean algebras.
Proceedings of the American Mathematical Society. 131 (2003), no. 1, 309–318.

PHD THESIS

Generalized weak distributive laws in Boolean algebras and issues related to a problem of von Neumann regarding measurable algebras. 125 pp.
University of Minnesota, 2001, under the supervision of Karel Prikry.

PROBLEM LISTS

- [2] Natasha Dobrinen, Problem 209 in “Solved and Unsolved Problems”
Newsletter of the European Mathematical Society, March 2019, page 56
- [1] Natasha Dobrinen. A List of Problems on the Reverse Mathematics of Ramsey Theory on the Rado Graph and on Infinite, Finitely Branching Trees. 3 pp. arXiv:1808.10227

INVITED BOOK REVIEWS

- [3] Natasha Dobrinen. *Appalachian Set Theory 2006 - 2012*. Editors: James Cummings and Ernest Schimmerling
Bulletin for Symbolic Logic. 20 (2014), no. 1, 94–97.
- [2] Natasha Dobrinen. *Introduction to Boolean Algebras*, by Steven Givant and Paul Halmos.
Bulletin for Symbolic Logic. 16 (2010), no. 2, 281–282.

- [1] Natasha Dobrinen. *A Mathematical Introduction to Logic*, Second edition, by Herbert B. Enderton.
Bulletin for Symbolic Logic. 9 (2003), no. 3, 406–407.

IN PROGRESS/PREPARATION

- Peter Cholak, Natasha Dobrinen, and Henry Towsner. Arithmetic forcing and upper bounds for the computability strength of big Ramsey degrees.
- Natasha Dobrinen, Michael Hrušák, and Sonia Navarro Flores. Ideals related to topological Ramsey spaces.
- Natasha Dobrinen. Initial Rudin-Keisler and Tukey structures of ultrafilters forced by infinite dimensional Ellentuck spaces.
- Natasha Dobrinen and Dragan Mašulović. Topological Ramsey spaces and big Ramsey degrees of universal limit structures for Fraïssé classes of algebras.
- Natasha Dobrinen and Jenny Xu. Dual topological Ramsey spaces.
- Natasha Dobrinen, Dominic Scarcelli, and Jenny Xu. Initial Tukey structures of ultrafilters.
- Natasha Dobrinen and Jing Zhang. Dense Sacks forcing and Laver’s Conjecture.

UNPUBLISHED ARXIV PREPRINT

- Natasha Dobrinen, The Ramsey theory of the universal homogeneous triangle-free graph, Part II: Exact big Ramsey degrees. 22 pp. arXiv:2009.01985
 The stated result, but not the method, is subsumed in the larger work [45]. The method formed a basis for [50].

LECTURES

INVITED CONFERENCE LECTURES AND TUTORIALS (112)

Plenary (37), Tutorials (8), Semi-Plenary (4), Special Sessions (27)

- BIRS Workshop on Infinite Structural Ramsey Theory November 2025
Tutorial on Ramsey theory of infinite binary relational structures and Ramsey spaces
- XVIII Luminy Workshop in Set Theory, CIRM November 2025
Big Ramsey degrees and forcing
- ESI Program on Reverse Mathematics, Vienna July 2025
Computability theoretic aspects of big Ramsey degrees
- ASL North American Meeting, New Mexico State University May 2025
Special Session on Set Theory
Ramsey spaces and their ultrafilters
- Roaming Logic Conference, Warsaw, Poland (Plenary) May 2025
Infinite structural Ramsey theory
- Midwest Computability Seminar, University of Chicago April 2025
Computability theoretic aspects of big Ramsey degrees
- Arctic Set Theory Workshop 7, Kilpisjärvi, Finland February 2025
On parametrized Ramsey theorems
- Oberwolfach Workshop on Set Theory (50 minute) January 2025
- Chinese Annual Conference on Mathematical Logic (Plenary) October 2024.
Peking University, Beijing, China
Infinite structural Ramsey theory and logic
- AMS-UMI Meeting, Palermo, Italy July 2024
Special Session on Set Theory
- “120 Years of Choice”, University of Leeds, UK (Plenary) July 2024
- SLALM2024, Piriápolis, Uruguay (Tutorial) June-July 2024
XX Simposio Latinoamericano de Lógica Matemática
- RaTLoCC24 University of Pisa, Italy June 11-24, 2024 (50-minute) June 2024
Ramsey Theory in Logic, Combinatorics and Complexity
- Spring Topology and Dynamical Systems Conference, Charlotte (Semiplenary) March 2024
- SEALS, University of Florida, Gainesville March 2024
- 17th International Workshop on Set Theory, Luminy October 2023
Infinite dimensional Ramsey theory on binary relational homogeneous structures
- Workshop on Set-Theoretic Topology, Oaxaca (Plenary) August 2023
Cofinal types of ultrafilters over measurable cardinals
- From omega to Omega, Singapore (2 Plenaries) June-July 2023
missed due to broken elbow
- Workshop on the Frontiers of Set Theory, Fields Institute (Plenary) June 2023
missed due to broken elbow
- Young Set Theory, U Münster (Tutorial) May-June 2023
Ramsey Theory on Infinite Structures, Parts I–III
- MAMLS Spring Fling, Rutgers (Plenary) May 2023

Infinite-dimensional Ramsey theory on binary relational homogeneous structures

- Computability and Combinatorics, U Connecticut (Plenary) May 2023
Ramsey theory on infinite structures
- ASL North American Annual Meeting, UC Irvine (Tutorial) March 2023
Ramsey theory on infinite structures, Parts I and II
- Spring Topology and Dynamical Systems Conference, Rhodes College March 2023
Special Session on Set-Theoretic Topology
Infinite-dimensional Ramsey theory for binary relational FAP classes
- UCLA Distinguished Women in Math Lecture Series February 2023
Ramsey Theory of the Rado Graph
- VIG 2023 in honor of Tony Martin, UCLA (Plenary) February 2023
Infinite-dimensional Ramsey theory on binary relational homogeneous structures
- Geometry and Dynamics of Groups of Transformations, Fields (Plenary) January 2023
Infinite-dimensional Ramsey theory on homogeneous binary relational structures
- The Mathematics of Julia Knight, Notre Dame (Plenary) October 2022
Ramsey theory on homogeneous structures
- European Set Theory Conference, Torino (Plenary) August 2022
Infinite-dimensional structural Ramsey theory
- International Congress of Mathematicians (logic section) July 2022
Ramsey theory of homogeneous structures
- ESI Set Theory Workshop, Vienna (Plenary) July 2022
Ultrafilters and topological Ramsey spaces
- ULTRAMATH, Pisa (Plenary) June 2022
Ultrafilters and topological Ramsey spaces
- Spring Topology and Dynamical Systems Conference, Baylor University March 2022
Special Session on Set-Theoretic Topology
A class of homogeneous structures for which all Borel sets are Ramsey
- Oberwolfach Workshop on Set Theory January 2022
Infinite dimensional Ramsey theory of homogeneous structures: a progress report
- 16th International Workshop in Set Theory, Luminy September 2021
Exact big Ramsey degrees from coding trees
- SEALS, University of Florida, Gainesville (Plenary) February 2021
Ramsey theory on infinite structures
- ULTRAMATH 2020, Pisa (Plenary) June 2020
postponed to 2022
- Association for Symbolic Logic North American Annual Meeting, UC Irvine March 2020
Special Session: Forcing and Ramsey Theory (40 minute)
Ramsey theory on Fraïssé structures
- AMS-ASL Special Session at JMM: Logic Facing Outward (45 minute) January 2020
Logic and Combinatorics
- AMS-ASL Special Session at JMM: Choiceless Set Theory and Related Areas January 2020
Barren extensions
- DiPriscoFest, Universidad de los Andes, Bogotá (Plenary) November 2019
Conference in honor of Carlos Di Prisco's 70th Birthday

- AMS Southeastern Sectional, University of Florida
Special Session on Čech-Stone compactification of semigroups:
Algebra, Topology, Dynamics, and Combinatorics
Ramsey ultrafilters and friends

November 2019
- 15th International Workshop on Set Theory, Luminy (50 minute)
Borel sets of Rado graphs have the Ramsey property

September 2019
- Casa Matemática de Oaxaca (50 minute)
Workshop on Reverse Mathematics of Combinatorial Principles
Some problems in the reverse mathematics of Ramsey theory

September 2019
- AMS Fall Central Sectional, Madison, WI
Special Session in Topology and Descriptive Set Theory
Borel partitions of a space of Rado graphs are Ramsey

September 2019
- Midsummer Combinatorial Workshop, Prague
Ramsey theory on infinite graphs

July 2019
- Logic Fest in the Windy City, UIC (Tutorial)
Ramsey theory on trees and applications to infinite graphs

May 2019
- 50 Years of Set Theory in Toronto, Fields Institute (Plenary)
Strong coding trees and applications to Ramsey theory on infinite graphs

May 2019
- Spring Topology and Dynamics Conference, Birmingham, AL
unable to attend due to a blizzard in Denver

March 2019
- Arctic Set Theory Workshop 4, Kilpisjärvi, Finland (50 minute)
Ramsey theory of the Henson graphs

January 2019
- ASL Winter Meeting, Joint Mathematics Meetings, Baltimore (Plenary)
Ramsey theory of the Henson graphs

January 2019
- University of Vienna (Tutorial)
Infinitary Ramsey Theory

January 2019
- Unifying Themes in Ramsey Theory, Banff
Ramsey theory of the Henson graphs

November 2018
- Generalised Baire Spaces, KNAW, Amsterdam
Perfect tree forcings for singular cardinals

August 2018
- Ramsey Theory in Logic, Combinatorics, and Complexity (50 minute)
Bertinoro International Center for Informatics, Italy
The Ramsey theory of the universal homogeneous triangle-free graph

July 2018
- SETTOP, Novi Sad (Plenary)
The Ramsey theory of the universal homogeneous triangle-free graph

July 2018
- ASL North American Meeting, Special Session on Set Theory (50 minute)
The Ramsey theory of universal homogeneous k -clique-free graphs

May 2018
- 52nd Spring Topology and Dynamical Systems Conference
Special Session on Set-theoretic Topology
Applications of high dimensional Ellentuck spaces

March 2018
- ASL-AMS Special Session on Logic and Ramsey Theory (50 minute)
Joint Mathematics Meetings, San Diego, CA
The universal homogeneous triangle-free graph has finite big Ramsey degrees

January 2018
- First Mexico/USA Logic Fest, Mexico City
declined due to conflict with ASL-AMS Session

January 2018

- Institut Camille Jordan, University of Lyon 1 (Plenary) November 2017
Workshop on Ultrafilters, Ramsey theory and dynamics
Ramsey theory, trees, and ultrafilters
- 14th International Workshop on Set Theory, Luminy (50 minute) November 2017
The universal triangle-free graph has finite big Ramsey degrees
- 2nd Pan Pacific International Conference on Topology and Applications November 2017
Special Session on Set Theory, Busan, Republic of Korea
declined due to teaching schedule.
- Colloquium, Mathematics Department, University of Connecticut September 2017
Semester on Logic
The universal triangle-free graph has finite big Ramsey degrees
- BLAST, Vanderbilt University (Plenary) August 2017
The universal triangle-free graph has finite big Ramsey degrees
- Summer Topology Meeting, Dayton, OH June 2017
Special Session on Set-theoretic Topology
declined due to conflict with HERS Institute
- Association for Symbolic Logic, Boise State University (40 minute) March 2017
Special Session on Set Theory and its Applications to Analysis and Topology
The universal triangle-free graph has finite big Ramsey degrees
- Spring Topology and Dynamical Systems Conference, March 2017
New Jersey City University, Session on Set-theoretic Topology
Banach spaces from high-dimensional Ellentuck spaces
- Arctic Set Theory III, Kilpisjärvi, Finland (50 minute) January 2017
On the finite big Ramsey degrees for the universal triangle-free graph: A progress report
- Seventh Indian Conference on Logic and its Applications (Plenary) January 2017
Indian Institute of Technology, Kanpur
Ramsey theory on Trees and Applications
- Special Session: Women in Topology, JMM January 2017
declined due to conflict with ICLA in India
- Ramsey DocCourse, Prague (50 minute) December 2016
The universal triangle-free graph (most likely) has finite big Ramsey degrees
- Workshop on Infinite Combinatorics and Forcing Theory (Tutorial) November 2016
Research Institute for Mathematical Sciences, Kyoto
Tutorial - three 50-minute lectures
Ramsey theory in forcing
- Casa Matemática de Oaxaca September 2016
Workshop on Applications of Set Theory to Topology
Creature forcing and topological Ramsey spaces
- Boise Extravaganza in Set Theory (Plenary) June 2016
San Diego, CA
Ramsey spaces coding universal triangle-free graphs and applications to Ramsey degrees
- Association for Symbolic Logic Winter Meeting (Plenary) January 2016
Joint Mathematics Meeting, Seattle
Inner topological Ramsey spaces
- 1st Pan Pacific International Conference on Topology and Applications November 2015
Min Nan Normal University, Zhangzhou

Tukey theory of ultrafilters

- The Emmy Noether Society, University of Cambridge, UK November 2015
Canonical Ramsey theory
- 5th European Set Theory Conference (Plenary) August 2015
Isaac Newton Institute, Cambridge, UK
Infinite dimensional Ellentuck spaces
- Summer Topology Conference, Galway, Ireland (Semi-plenary) July 2015
High dimensional Ellentuck spaces
- Spring Topology and Dynamics Conference, (Semi-plenary) May 2015
Bowling Green State University, Special Session on Set Theoretic Topology
Canonical cofinal maps on ultrafilters and properties inherited under Tukey reducibility
- Forcing and Its Applications Retrospective Workshop (Plenary) March 2015
Fields Institute, Toronto
High and higher dimensional Ellentuck spaces
- Arctic Set Theory II, Kilpisjärvi February 2015
High and higher dimensional Ellentuck spaces and initial structures in the Rudin-Keisler and Tukey types of non- p -points
- Summer Topology Conference, CUNY Staten Island July 2014
Session on Set-theoretic topology
declined due to previously scheduled research stay in Vienna.
- Set Theory Workshop, Freiburg (Plenary) June 2014
High dimensional Ellentuck spaces and initial chains in the Tukey types of non- p -points
- Association for Symbolic Logic North American Annual Meeting May 2014
Special Session in Honor of Rich Laver, University of Colorado - Boulder
Some recent progress in Ramsey theory
- Spring Topology and Dynamics Conference March 2014
Session on Set-theoretic topology, University of Richmond, VA
The initial Tukey structure below the generic ultrafilter forced by $\mathcal{P}(\omega \times \omega)/\text{Fin}^{\otimes 2}$
- Oberwolfach Set Theory Workshop (50 minute) January 2014
Progress in Ramsey theory
- Fourth European Set Theory Conference, Barcelona (Semi-plenary) July 2013
General framework for topological Ramsey spaces and ultrafilters with partition properties
- Sy Friedman's 60th Birthday Conference, Vienna July 2013
Sliders
- Association for Symbolic Logic North American Annual Meeting May 2013
Special Session on Set Theory, Waterloo, Canada
Initial segments in of the Tukey hierarchy
- American Mathematical Society Spring Southeastern Sectional, March 2013
Special Session on Set Theory and Its Applications, Oxford, MS
missed due to broken wrist
- Arctic Set Theory, Kilpisjärvi, Finland February 2013
Ramsey theory and Tukey types
- Mathematical Logic and General Topology, Novi Sad (Plenary) September 2012
Tukey types of ultrafilters

- 15th Latin American Symposium on Mathematical Logic, Bogota June 2012
Special Session on Set Theory
The structure of the Tukey types of ultrafilters
- Online Panelist for the Association for Women in Mathematics January 2012
Panel on Coauthoring, Joint Mathematics Meeting
- Third European Set Theory Conference, Edinburgh (Plenary) July 2011
Canonization theorems on Ramsey spaces and their application to the Tukey theory of ultrafilters
- AMS, Sectional Meeting, UCLA (40 minute) October 2010
Special Session on Large Cardinals and the Continuum
Structure theorems for Tukey types of ultrafilters
- ASL North American Annual Meeting, Washington DC March 2010
Special Session on Set Theory
Tukey types of ultrafilters
- ISLA 2010, Hyderabad January 2010
Tukey types of ultrafilters
- BLAST 09, Las Cruces (Tutorial) August 2009
Set Theory and Boolean Algebras
- Université Paris VII, Logic Meeting, Paris July 2009
Tukey degrees of ultrafilters
- ESI Workshop on Large Cardinals and Descriptive Set Theory, Vienna June 2009
Tukey degrees of ultrafilters
- 2nd New York Women in Mathematics Conference, New York (Plenary) May 2008
The tree property
- First European Young Set Theory Meeting, Bonn (Plenary) January 2008
The tree property
- ASL North American Annual Meeting, Gainesville (Plenary) March 2007
Co-stationarity of the ground model
- DMV Annual Meeting: Special Session in Set Theory, Bonn September 2006
Co-stationarity of the ground model
- ASL European Summer Meeting: Special Session in Set Theory, Nijmegen July 2006
Co-stationarity of the ground model, internal consistency, and new sequences
- BEST, Boise (Plenary) March 2006
Co-stationarity of the ground model
- Oberwolfach Workshop on Set Theory (50 minute) December 2005
Co-stationarity of the ground model
- AMS-DMV-OeMG Joint Meeting, Mainz June 2005
Special Session in Set Theory
Stationary subsets of $\mathcal{P}_{\kappa^+}\lambda$ with respect to the ground model
- Joint Mathematics Meeting, Atlanta January 2005
ASL/AMS Special Session in Reverse Mathematics
Almost everywhere domination
- Foundations of the Formal Sciences V, Bonn (Plenary) November 2004
Infintary games in Boolean algebras

- ASL Annual Meeting, Carnegie Mellon University May 2004
Special Session in Set Theory
 κ -stationary subsets of $\mathcal{P}_\kappa\lambda$ and relationships with infinitary distributive laws and related games in Boolean algebras
- MAMLS, Hofstra University (Plenary) March 2004
Infinitary Games and Distributive Laws in Boolean algebras
- AWM Workshop for Women Graduate Students and Recent PhDs January 2004
Joint Mathematics Meeting, Phoenix
Measurably dominating randomness: some measurable similarities between set theory and recursion theory regarding dominating functions
- MAMLS, Washington D.C. (Plenary) April 2001
Weak distributive laws in Boolean algebras and issues related to a problem of von Neumann

INVITED COLLOQUIUM AND SEMINAR LECTURES (65)

- Berkeley Logic Colloquium, UC Berkeley September 2025
Infinite structural Ramsey theory: logic and combinatorics
- University of Chicago Logic Seminar April 2025
Pseudotrees and their big Ramsey degrees
- KGRC Logic Colloquium January 2025
Infinite structural Ramsey theory and logic
- KGRC Research Seminar in Set Theory January 2025
Forcing on coding trees
- Tsinghua University Logic Salon October 2024
Big Ramsey degrees and logic
- Nankai University Logic Colloquium October 2024
Forcing and Ramsey theory on trees
- Auburn University Mathematics Colloquium October 2024
Infinite structural Ramsey theory: logic and combinatorics
- Math Colloquium, University of Florida, Gainesville March 2024
- Logic Seminar, University of Waterloo October 2023
Cofinal types of ultrafilters on measurable cardinals
- Mathematics Colloquium, University of Waterloo October 2023
Infinite-dimensional Ramsey theory on binary relational structures
- Mathematic Colloquium, Wesleyan University May 2023
Ramsey theory on infinite structures
- Mathematics Colloquium, The Ohio State University April 2023
Ramsey theory on binary relational homogeneous structures
- Logic Seminar, University of Illinois–Chicago April 2023
Ramsey theory on binary relational homogeneous structures
- Mathematics Colloquium, Southern Illinois University April 2023
Ramsey theory on binary relational homogeneous structures
- Set Theory Seminar, Fields Institute March 2023
Infinite-dimensional structural Ramsey theory

- Logic Seminar, University of Waterloo March 2023
Infinite-dimensional Ramsey theory for binary relational free amalgamation classes
- Logic Seminar, University of Wisconsin November 2022
Infinite-dimensional Ramsey theory of homogeneous structures
- Combinatorics Seminar, University of Cambridge, UK February 2022
Ramsey theory of homogeneous structures
- Models and Sets Seminar, University of Leeds, UK May 2021
Fraïssé classes with simply characterized big Ramsey degrees
- Midwest Model Theory Seminar, University of Chicago March 2021
Fraïssé classes with simply characterized big Ramsey degrees
- Caltech Logic Seminar March 2021
Fraïssé classes with simply characterized big Ramsey degrees
- Online Logic Seminar, organized by Wesley Calvert April 2020
Ramsey properties on infinite structures
- Mathematics Colloquium, Boise State University, Idaho March 2020
Ramsey Theory for Infinite Structures and Set Theoretic Methods
- UCLA Logic Seminar February 2020
Strong coding trees and Ramsey theory on infinite structures
- Bar-Ilan University, Israel December 2019
Strong coding trees and applications to Ramsey theory on infinite graphs
- Logic Seminar, The Hebrew University of Jerusalem December 2019
Big Ramsey degrees of the Henson graphs
- Set Theory Seminar, Universidad de los Andes, Bogotá, Colombia August 2019
Tukey theory of ultrafilters
- Logic Seminar, University of Notre Dame, Indiana March 2019
Infinite dimensional Ramsey theory of the Rado graph
- Mathematics Colloquium, Miami University, Oxford, Ohio February 2019
Ramsey theory on the Henson graphs
- Logic Seminar, University of Florida February 2019
Ramsey theory on the Henson graphs
- Mathematics Colloquium, University of Florida February 2019
Ramsey theory on infinite graphs
- Analytic Topology Seminar, University of Oxford, UK January 2019
Ramsey theory and infinite graphs
- Kurt Gödel Research Center, Vienna, Austria January 2019
Ramsey theory of the Henson graphs
- Centro de Ciencias Matematicas, Morelia, Mexico December 2018
The Halpern-Lauchli Theorem at uncountable cardinals
- Logic Seminar, University of Notre Dame, Indiana September 2018
Logic, Ramsey Theory, and Homogeneous Structures
- Logic Seminar, University of Illinois – Urbana Champaign May 2018
Ramsey theory of the universal homogeneous k -clique graphs
- Logic Seminar, University of Illinois – Chicago April 2018

The universal homogeneous triangle-free graph has finite big Ramsey degrees

- Mathematics Seminar, National University of Ireland, Galway December 2017
The universal triangle-free graph has finite big Ramsey degrees
- Analytic Topology Seminar, University of Oxford, UK July 2017
The universal triangle-free graph has finite big Ramsey degrees
- Logic and Combinatorics Seminars, Carnegie Mellon University June 2017
The universal triangle-free graph has finite Ramsey degrees
- Logic Seminar, University of Illinois – Urbana Champaign March 2017
The universal triangle-free graph has finite Ramsey degrees
- Model Theory Seminar, University of Leeds, UK January 2017
The universal triangle-free graph has finite Ramsey degrees
- Centre de Recerca Matemàtica, Barcelona, Spain December 2016
The universal triangle-free graph probably has finite Ramsey degrees
- Colloquium, Mathematics Department, Auburn University, Alabama April 2016
Tukey theory of ultrafilters
- Analytic Topology Seminar, University of Oxford, UK December 2015
On the Tukey theory of ultrafilters
- Mini-Workshop on Set Theory, Vienna, Austria February 2015
Kurt Gödel Research Center for Mathematical Logic
High and higher dimensional Ellentuck spaces and initial structures in the Rudin-Keisler and Tukey types of non- p -points
- Discrete Mathematics Lectures, University of Calgary, Canada February 2014
Ramsey theory and initial structures in the Tukey types of p -points, Parts 1 and 2
- CUNY Set Theory Seminar, New York October 2013
Survey on the Tukey theory of ultrafilters
- University of Wisconsin - Madison Logic Seminar October 2013
Survey on the Tukey theory of ultrafilters
- University of Colorado at Boulder Logic Seminar October 2013
Survey on the Tukey theory of ultrafilters
- CUNY Logic Seminar, New York December 2012
Ramsey theory and Tukey types of ultrafilters
- University of Toronto, Women in Math Colloquium September 2012
Tukey types of ultrafilters
- Fields Institute Set Theory Seminar August 2012
Ramsey-classification theorems and their applications in the Tukey theory of ultrafilters
- CU Boulder Logic Seminar April 2010
The current status of Tukey types of ultrafilters
- MIG 4, Boulder April 2010
Further understanding of Tukey types of ultrafilters
- California Institute of Technology, Logic Seminar January 2010
Tukey degrees of ultrafilters
- MIG 1, Boulder October 2009

Current status of work on Tukey degrees of ultrafilters

- University of Wisconsin, Logic Seminar April 2009
Tukey degrees of ultrafilters
- Fields Institute, Set Theory Seminar March 2009
Tukey degrees of ultrafilters
- Université Paris VII, Logic Seminar December 2008
The tree property
- Fields Institute, Set Theory Seminar February 2008
The tree property at the double successor of a measurable
- ICREA, Barcelona March 2005
 κ -stationary sets and distributive laws in Boolean algebras
- Chatham College Science Seminar November 2003
Almost everywhere domination
- Carnegie Mellon Mathematical Logic Seminar November 2003
The hyper-weak distributive law and related infinitary games in Boolean algebras
- Center for Theoretical Studies, Prague August 2003
Distributive laws, games, and $\geq \nu$ -club sets
- Dartmouth Math Colloquia May 2003
Infinitary games in Boolean algebras and related forcing properties
- MIT Logic Seminar April 2003
General infinitary distributive laws and related games in Boolean algebras
- CUNY Logic Workshop March 2003
Infinitary games in Boolean algebras and related forcing properties
- Carnegie Mellon Mathematical Logic Seminar October 2002
General infinitary distributive laws and related games in Boolean algebras
- The Academy of Sciences of the Czech Republic, Prague August 2002
Generalized distributive laws and games in Boolean algebras
- Mathematical Logic Seminar, Penn State University April 2001
A complete embedding of the Cohen algebra into the Argyros algebra

CONTRIBUTED TALKS (38)

- British Combinatorial Conference, Lancaster, UK July 2022
Ramsey theory on homogeneous structures
- BEST, Boise (online) June 2021
Big Ramsey degrees of universal inverse limit structures
- BLAST, Las Cruces (online) June 2021
Big Ramsey degrees of universal inverse limit structures
- British Combinatorial Conference, Birmingham, UK July 2019
Ramsey theory on infinite graphs
- ASL North American Annual Meeting, CUNY, New York May 2019
Borel subsets of Rado graphs are Ramsey
- BLAST 2018, University of Denver August 2018
Perfect tree forcings for singular cardinals
- 5th European Set Theory Meeting, Budapest, Hungary 2017
Forcing in Ramsey Theory
- Logic Colloquium, Leeds, UK July 2016
Rainbow Ramsey simple structures
- Toposym, Prague, Āech Republic July 2016
Creature forcing and topological Ramsey spaces
- BLAST, University of North Texas June 2015
Continuous and other finitely generated canonical cofinal maps on ultrafilters
- ASL European Summer Meeting, Vienna July 2014
Generalized Ellentuck spaces and initial Tukey chains of non- p -points
- Ramsey Theory Conference, University of Denver May 2014
Boolean algebras as initial structures in the Tukey types of p -points
- BLAST 2013, Orange CA August 2013
General framework for topological Ramsey spaces, canonization theorems, and Tukey types of ultrafilters with weak partition properties
- Erdős Centenary Conference, Budapest July 2013
Ramsey-classification theorems and applications in the Tukey theory of ultrafilters (poster)
- Czech Winter School in Abstract Analysis, Prague February 2012
Ramsey-classification theorems and Tukey types
- Infinite and Finite Sets, Hajnal's 80th Birthday Conference June 2011
Budapest
Canonization theorems on Ramsey spaces and their application to the Tukey theory of ultrafilters
- BLAST, Lawrence June 2011
Canonization theorems on Ramsey spaces and their application to the Tukey theory of ultrafilters
- ASL European Summer Meeting, Paris July 2010
Continuous cofinal maps on ultrafilters
- BEST, Boise March 2010
Tukey types of ultrafilters
- Kunen Fest, University of Wisconsin April 2009

Tukey degrees of ultrafilters

- BLAST 08, Denver August 2008
The tree property
- ASL European Meeting, Bern July 2008
Homogeneous iteration and measure-one covering relative to HOD
- Advances in Set-theoretic Topology, Erice June 2008
The tree property
- Joint Mathematics Meetings, New Orleans January 2007
Coding a new countable-length sequence
- Toposym, Prague August 2006
Boolean algebras and co-stationarity of the ground model
- Selection Principals in Mathematics Workshop, Boise March 2006
A More ubiquitous undetermined uncountable length game
- Joint Mathematics Meetings, ASL Session, San Antonio January 2006
Co-stationarity of the ground model
- Workshop on Games and Selection Principals in Topology, Lecce December 2005
More on undetermined uncountable-length games
- Logic in Hungary, Budapest August 2005
Co-stationarity of the ground model
- ASL European Summer Meeting, Athens July 2005
 κ -stationary subsets of $\mathcal{P}_{\kappa^+ \lambda}$
- Prague Winter School in Abstract Analysis, Bohemia February 2005
 κ -stationary sets
- ASL European Summer Meeting, Torino July 2004
Almost everywhere domination
- ASL European Summer Meeting, Helsinki August 2003
A very weak distributive law and a related game in Boolean algebras
- ASL Annual Meeting, Chicago June 2003
A very weak distributive law and a related game in Boolean algebras
- BEST, Boise March 2003
A very weak distributive law and a related game in Boolean algebras
- BEST, Boise March 2002
Complete embeddings of the Cohen algebra
- ASL European Summer Meeting, Vienna August 2001
Complete embeddings of the Cohen algebra into three complete, atomless, c.c.c. Boolean algebras
- ASL Meeting, Minneapolis May 2001
A complete embedding of the Cohen algebra into the Galvin-Hajnal algebra

NOTRE DAME LOGIC SEMINAR TALKS

- Computability theoretic aspects of big Ramsey degrees October 2025
- Infinite structural Ramsey theory: logic and combinatorics October 2024
- Halpern-Läuchli on strong limit cardinals November 2023
- Big Ramsey degrees of homogeneous structures, Parts I and II September 2022

SERVICE

SERVICE TO THE PROFESSION

- Managing Editor for special issue of *Annals of Pure and Applied Logic* in honor of Qi Feng's 70th Birthday 2025–present
- Editor for *Notre Dame Journal of Formal Logic* 2025–present
- Coordinating Editor for *Annals of Pure and Applied Logic* 2024–present
- Editor for *Order* 2022–present
- Editor for *Annals of Pure and Applied Logic* 2020–present
- Association for Symbolic Logic
 - President 2025–2027
 - Vice-President 2022–2024
 - Chair of the Committee for Logic in North America 2018–2020
 - Member of ASL Council 2018–2020
 - Member of the Committee for Logic in North America 2014–2017
 - Web Advisory Committee Member 2014–2017
- Conference Organizer and Program Committee Member (see pages 1, 2 and 5) 2008–present

PANELIST

- European Set Theory Society Panel Discussion January 2023
Panelist for World Logic Day
- Academy of Sciences Webinar Series, *Mathematical Frontiers* September 2019
Panelist (with Julia Knight) on *Logic and Foundations*
- Summer Topology Conference, Galway, Ireland June 2015
Panelist at *Career Workshop for Graduate Students*
- Association for Women in Mathematics Workshop at the JMM January 2012
Panelist on *Online Collaboration*

THESIS COMMITTEE MEMBER

Member of PhD Dissertation Committees:

Yayi Fu, University of Notre Dame	2024
Keegan Dasilva Barbosa, U. Toronto	2022
Sonia Navarro Flores, UNAM Morelia	2021
Lauren Nelson, University of Denver	2019
Charles Scherer, CU Boulder	2016
Timothy Trujillo, University of Denver	2014
Kevin Selker, CU Boulder	2014
Joshua Wiscons, CU Boulder	2011

Chair of Masters Thesis Committee in Physics:

Emily Armitage, University of Denver	2020
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Member of Undergraduate Honor Thesis Committee:

Patrick Walsh, for BS with honors, Department of Philosophy, University of Denver	2012
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REVIEWER

- Outside reviewer for tenure and promotion 2021 (1), 2022 (2), 2023 (4), 2024 (2), 2025 (2)
- Reviewer for an AMS book manuscript in past five years
- Panelist for National Science Foundation 3 times between 2017 and present
- Reviewer for NSF Grant Applications twice between 2010 and 2016
- Reviewer for PROF research grants, University of Denver 2013
- Reviewer for CUNY Grant Applications 2010

FREQUENT REFEREE FOR THE FOLLOWING JOURNALS

Acta Mathematica Hungarica
Advances in Mathematics
Annals of Pure and Applied Logic
Archive for Mathematical Logic
Commentationes Mathematicae Universitatis Carolinae
Discrete Mathematics
Fundamenta Mathematicae
Israel Journal of Mathematics
Journal of the American Mathematical Society
Journal of Combinatorial Theory, Series A
Journal of the American Mathematical Society
Journal of Mathematical Logic
Journal of Symbolic Logic
Mathematical Logic Quarterly
Monatshefte
Notre Dame Journal of Mathematical Logic
Proceedings of the American Mathematical Society
Topology and Its Applications
Transactions of the American Mathematical Society

SERVICE AT THE UNIVERSITY OF NOTRE DAME

- Postdoc Search Committee Member, Department of Mathematics December 2025–present
- Executive Committee Member, Department of Mathematics July 2024–present
- Committee Member. October–December 2024
Unusual Opportunities and Affirmative Action Committee
- AWM Faculty Co-Sponsor. August 2024–present
- Hiring Committee Member. August 2023–May 2024
- Committee Member. October–December 2022
Unusual Opportunities and Affirmative Action Committee

Member of Oral Exam Committees:

Cheng Liao, University of Notre Dame	January 2025
Tan Özalp, University of Notre Dame	February 2024
Jenny Xu, University of Notre Dame	February 2024
Yuyan He, University of Notre Dame	February 2023
Gabriel Day, University of Notre Dame	September 2023
Katie Ellman-Aspnes, University of Notre Dame	December 2022

Undergraduate Honor Thesis Advisor:

Gavin Dooley	2023–2024
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Graduate Student Advisor:

Jane Kwak (incoming co-advisor with David Galvin)	2025–present
Dominic Scarcelli	2025–present
Tan Özalp	2023–present
Jenny Xu	2023–present
Yasmin Aguillon (incoming co-advisor with Sam Evens til 2024, current EDGE Mentor)	2022–present

SERVICE AT THE UNIVERSITY OF DENVER

- Member. Promotion Committee, Mathematics Department 2021–2022
- AWM Faculty Co-sponsor 2016–2022
Facilitate our student chapter of the Association for Women in Mathematics
- Graduate Student Women in Math Mentoring Coordinator 2012–2022
- Math Women Lunches Coordinator 2011–2022
- Member. Graduate Committee, Mathematics Department 2009–2022
- Faculty Advisor to undergraduate students 2008–2022
On average 10 undergraduates.
- Faculty Advisor to graduate students 2008 –2022 *On average 4 graduate students.*
- Chair. Graduate Committee, Mathematics Department 2019 - 2020
- Chair. Promotion Committee, Mathematics Department 2019–2020
- Member. Faculty Senate 2019–2020
- Led Orientation Week for New Math Graduate Students 2019
Led orientation week for the new graduate students in mathematics.
- Member. Search Committee for 2 Teaching Professors 2018–2019
- Member. Promotion and Tenure Committee 2018–2019
- Chair. Committee on Research Center 2018–2019
- Math Department Graduate Student Professionalism and Inclusive Excellence Training 2015–2019
Initiated, fielded the development of, and presented the training session for the graduate students in the Department of Math, and continue developing ways to train our graduate students
- Member. Promotion Committee for Full Prof., Mathematics Department 2017–2018
- Member. Promotion Committee for Assoc. Teaching Prof., Math Dept. 2017–2018
- Member. Postdoc Hiring Committee, Math Dept. 2017–2018
- Member. Hiring Committee, Math Dept. 2016–2017
for one Tenure-track Assistant Professor Position
- Member. Tenure Review Committee, Math Dept. 2016–2017
- Member. Pre-tenure Review Committee, Math Dept. 2016–2017
- Chair. Hiring Committee, Math Dept. 2015–2016
for two Teaching Assistant Professor Positions
- Member. Tenure and Promotion Committee, Math Dept. 2015–2016
- Member. Pre-Tenure Review Committee, Math Dept. 2015–2016
- Faculty Representative for the Division of Natural Sciences and Mathematics Internationalization Counsel, University of Denver 2014–2016
- Participant. NSM Winter Streaming Conversations 2015
Status of Women Study, with Dr. Shelly Smith-Acuna
- Faculty Adviser and Organizer 2008–2014
for the DU Graduate Student Seminar / Colloquium

- Chair. Hiring Committee for Math Department Lecturers 2014
- PROF Grant Committee Member, University of Denver 2013
- Member. Pre-tenure Review Committee, Math Dept. 2012
- Member. Teaching Load Committee, Math Dept. 2012
- Member. Tenure Review Committee, Math Dept. 2012
- Member. Hiring Committee for a Lecturer, Math Dept. 2012
- Chair. Graduate Student Mentoring Committee, Math Dept. 2011–2012
- Member. Pre-tenure Review Committee, Math Dept. 2011
- Member. Search Committee for a new faculty, Math Dept. 2010–2013
- Member. Scholarship Committee for Incoming Mathematics Majors Spring 2009
- Faculty Adviser to 14 first-year students 2008–2009

SERVICE AT THE PENNSYLVANIA STATE UNIVERSITY

- Penn State Logic Seminar Coordinator 2002–2004
- Climate and Diversity Committee Member 2002–2004
- Women in Mathematics (WIM) Board member 2003–2004

TEACHING

COURSES TAUGHT AT THE UNIVERSITY OF NOTRE DAME

MATH 80510 – Topics in Mathematical Logic (graduate course) <i>Descriptive Set Theory and Ramsey Theory</i>	Spring 2026
MATH 20630 – Introduction to Mathematical Reasoning	Fall 2025
MATH 10150 – Principles of Mathematics	Fall 2025
MATH 10130 – Beginning Logic	Fall 2024
MATH 80510 – Topics in Mathematical Logic (graduate course) <i>Forcing and Ramsey theory</i>	Spring 2024
MATH 60510 – Basic Logic I (graduate course)	Fall 2023, Spring 2025
MATH 80510 – Topics in Mathematical Logic (graduate course) <i>Ultrafilters and Ramsey Theory</i>	Fall 2022
MATH 10560 – Calculus 2	Fall 2022, Fall 2023

COURSES TAUGHT AT THE UNIVERSITY OF DENVER

MATH 3161 – Real Analysis I	Spring 2022
MATH 1953 – Calculus III	Spring 2022
MATH 4705 – Infinitary Ramsey Theory (graduate course)	Autumn 2021
MATH 3161 – Real Analysis I	Autumn 2021
MATH 3050 – Set Theory	Spring 2021
MATH 3991 – Independent Study: <i>Big Ramsey degrees</i> (undergraduate)	Fall 2020
MATH 3161 – Real Analysis I	Spring 2020
MATH 3060 – Mathematical Logic (undergraduate/graduate course)	Winter 2020
MATH 1150 – Perspectives in Art (2 sections)	Winter 2020
MATH 4995 – Independent Study: <i>Forcing and Ultrafilters</i> (graduate)	Autumn 2019
MATH 1951 – Calculus I	Autumn 2019
MATH 4705 – Ramsey Theory and Set Theory (graduate course)	Spring 2019
MATH 1150 – Perspectives in Art	Spring 2019
MATH 4995 – Independent Study: <i>Set Theory</i> (Course for 1 graduate student)	Winter 2019
MATH 3050 – Set Theory (undergraduate/graduate course)	Autumn 2018
MATH 1951 – Calculus I	Autumn 2018
MATH 4995 – Independent Study: <i>Infinitary Ramsey Theory</i> (Course for 3 graduate students)	Winter 2018
MATH 3060 – Mathematical Logic (undergraduate/graduate course)	Winter 2018

MATH 1150 – Perspectives in Art (2 sections)	Winter 2018
MATH 1951 – Calculus I	Autumn 2017
MATH 4050 – Combinatorial Set Theory (graduate course)	Spring 2017
MATH 1150 – Perspectives in Art	Spring 2017
MATH 3050 – Set Theory (undergraduate/graduate course)	Autumn 2016
MATH 1951 – Calculus I	Autumn 2016
MATH 1150 – Perspectives in Art (2 sections)	Spring 2016
MATH 3162 – Real Analysis II (undergraduate/graduate course)	Winter 2016
MATH 1952 – Calculus II (2 sections)	Winter 2016
MATH 4050 – Combinatorial Set Theory (graduate course)	Spring 2015
MATH 1150 – Perspectives in Art	Spring 2015
MATH 3050 – Set Theory (undergraduate/graduate course)	Autumn 2014
MATH 1951 – Calculus I	Autumn 2014
MATH 1150 – Perspectives in Art	Spring 2014
MATH 1150 – Perspectives in Art (2 sections)	Spring 2013
MATH 3060/4260 – Metric Spaces (undergraduate/graduate course)	Winter 2013
MATH 1952 – Calculus II (2 sections)	Winter 2013
MATH 4705 – Descriptive Set Theory (graduate course)	Spring 2012
MATH 1150 – Perspectives in Art (2 sections)	Spring 2012
MATH 1951 – Calculus I	Autumn 2011
MATH 3050 – Set Theory (undergraduate/graduate course)	Autumn 2011
MATH 4995 – Independent Research (graduate)	Autumn 2011
MATH 4300 – Graduate Student Seminar	Autumn 2011
MATH 1150 – Perspectives in Art	Spring 2011 (2 sections)
MATH 4991 – Independent Study: <i>Multiple Forcing</i> (graduate)	Spring 2011
MATH 4995 – Independent Research (graduate)	Spring 2011
MATH 4300 – Graduate Student Seminar	Spring 2011
MATH 3060 – Mathematical Logic (undergraduate/graduate course)	Winter 2011
MATH 4991 – Independent Study (graduate)	Winter 2011
MATH 4995 – Independent Research (graduate)	Winter 2011
MATH 4300 – Graduate Student Seminar	Winter 2011
MATH 1951 – Calculus I (2 sections)	Autumn 2010
MATH 4995 – Independent Research: <i>Ultraproducts</i> (graduate)	Autumn 2010

MATH 4300 – Graduate Student Seminar	Autumn 2010
MATH 1953 – Calculus III (2 sections)	Spring 2010
MATH 4300 – Graduate Student Seminar	Spring 2010
MATH 4300 – Graduate Student Seminar	Winter 2010
MATC 1150 – Perspectives in Art	Autumn 2009
MATH 4705 – Advanced Set Theory (graduate course)	Autumn 2009
MATH 3991 – Independent Study: <i>Topics in Set Theory</i>	Autumn 2009
MATH 4300 – Graduate Student Seminar	Autumn 2009
MATH 1952 – Calculus II	Spring 2009
MATH 1150 – Perspectives in Art	Spring 2009
MATH 4991 – Independent Study: <i>Ultrafilters</i> (graduate)	Spring 2009
MATH 4300 – Graduate Seminar	Spring 2009
MATH 1952 – Calculus II	Winter 2009
MATH 4300 – Graduate Seminar	Winter 2009
FSEM 1111 – Connections: Mathematics in Art, Literature, and Music	Autumn 2008
MATH 3050 – Set Theory (undergraduate/graduate course)	Autumn 2008
MATH 4991 – Independent Study: <i>Set Theory</i> (graduate)	Autumn 2008
MATH-4300 – Graduate Seminar	Autumn 2008
MATC 1150 – Mathematics in Art and Music	Spring 2008
MATH 3705/4705 – Group Theory (undergraduate/graduate course)	Spring 2008
MATH 4991 – Independent Study: <i>Boolean Algebra</i> (graduate)	Spring 2008
MATH 1951 – Calculus 1	Autumn 2007
MATH 3705/4705 – Mathematical Logic (undergraduate/graduate course)	Autumn 2007

TEACHING AT THE PENNSYLVANIA STATE UNIVERSITY

- **Lecturer**

– Math 401: Introduction to Analysis I	Spring 2004
– Math 496: Independent Studies (Set Theory)	Spring 2004
– Math 429: Introduction to Topology	Fall 2003
– Math 557: Mathematical Logic (graduate course)	Fall 2002
– Math 457: Introduction to Mathematical Logic	Fall 2002
– Math 459: Computability and Unsolvability	Spring 2002
– Math 250: Ordinary Differential Equations	Fall 2001

TEACHING AT THE UNIVERSITY OF MINNESOTA

- **Teaching Assistant** for the Institute of Technology 2000 - Spring 2001
 - Calculus II *Conducted recitation sessions and supervised group projects.*
 - Multivariable Calculus *Conducted recitation sessions and computer laboratory sessions using Mathematica.*
- **Teaching Assistant** for the School of Mathematics 1996 - 1999
 Conducted recitation sessions for the following courses:
 - Precalculus I and II
 - Calculus I and II
 - Multivariable Calculus
 - Short Calculus (for business majors)
- **Teaching Assistant Trainer** 1998, 1999
 Trained new graduate students in teaching strategies and presentation skills.
- **Tutor** 1996 - 1998, Spring 2000
 for the Institute of Technology Tutoring Center.

TEACHING AWARDS AND HONORS

- Faculty Escort for the Student Marshal for Penn State's Eberly College of Science December 2003
- Outstanding Teaching Award May 2001
University of Minnesota, Department of Mathematics

TEACHING ENRICHMENT

- Faculty Race Course, *Why Does "Blackness" Matter?* February 2021
Four-week course hosted by InterVarsity's Faculty Ministry and The Veritas Forum
- Participant, Inclusive Teaching in STEM Workshop Series 2017
- Participant, DU Inclusive Excellence Seminar 2014
- Participated in DU Math Department Teaching Excellence Initiative 2013
- Participated in the Provost's Conference October 2009
Mental Health on Campus
- Attended CTL Coffee Break Spring 2009
Millennials Part II: What the Students Say
- Worked with staff from Writing Center Autumn 2008
to develop course materials on works of Jorge Borges for FSEM
- Learned *Scientific Notebook* for Calculus labs Autumn 2007
- Allegheny Section NExT participating member Spring 2002 - Spring 2004
New Experiences in Teaching, sponsored by the MAA
- Mathematica Fall 2000, Spring 2001
Used Mathematica to conduct computer labs for Multivariable Calculus.

MEMBERSHIPS IN MATHEMATICAL ORGANIZATIONS

- American Mathematical Society (AMS)
- Association for Symbolic Logic (ASL)
- Association for Women in Mathematics (AWM)
- European Set Theory Society (ESTS)