

CURRICULUM VITAE
NATASHA DOBRINEN

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EDUCATION

- Ph.D. in Mathematics, University of Minnesota July 2001
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.”
- B.A. in Mathematics, High Honors, University of California - Berkeley May 1996
Honor’s Thesis Advisor: Richard E. Borcherds
Honor’s Thesis title: “The prime number theorem.”

EMPLOYMENT

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

POSITIONS OF TRUST

- Annals of Pure and Applied Logic** 2020 - present
• Editor 2020 - present
- University of Denver, Department of Mathematics**
• Chair of Graduate Studies Committee 2019 - 2020
- Association for Symbolic Logic**
• Vice President (2021 Nomination Committee’s nominee) 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**
• Founder (with N. Galatos) and Core Group Member 2008 - present
- Chair of Program Committees** including
• Association for Symbolic Logic Winter Meeting 2020
• BLAST Conference at the University of Denver 2018
• Conference on Infinitary Ramsey Theory 2014

HONORS AND AWARDS

- International Congress of Mathematicians, Invited Speaker 2022
- National Academies of Sciences, Engineering and Medicine
Mathematical Frontiers Webinar Panelist on *Logic and Foundations* 2019
- 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 2019 - August 2022
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

- Three National Science Foundation Grant, Co-P.I. 2017 - 2019
BLAST Conference 3-year cycle, \$84,000
- 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

- **Research Mentor**
 - Professor Kaiyun Wang, Shaanxi Normal University, China (2018 - 2019)
 - Professor Jennifer Brown, California State University - Channel Islands (2013 - 2014)
- **Postdoctoral Mentor**
 - Daniel Hathaway (2015 - 2018)
 - José Mijares (2013 - 2015)
- **PhD Advisor**
 - Sonia Navarro Flores (PhD 2021)
 - Timothy Trujillo (PhD 2014)
- **Masters Thesis Advisor**
 - Sonia Navarro Flores (MS 2015)

INVITATIONS TO RESEARCH PROGRAMS

- 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

- 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 Todorćevic, Université of Paris VII July - August 2011
- Stevo Todorćevic, Université of Paris VII June - August 2010
- Stevo Todorćevic, Université of Paris VII December 2010
- Alexander Kechris, California Institute of Technology January 2010
- Stevo Todorćevic, Université Paris VII July - August 2009

- Sy-David Friedman, University of Vienna June 2009
- Kenneth Kunen, University of Wisconsin April 2009
- Stevo Todorcevic, University of Toronto March 2009
- Stevo Todorcevic, Université Paris VII November - December 2008
- Stevo Todorcevic, Université Paris VII July 2008
- Stevo Todorcevic, 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

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

Organizer and Committee Member

- Scientific Committee Member. BEST Conference Series 2018 - 2023
- Organizer (with Dana Bartošová). AMS Western Sectional Special Session on Ramsey Theory of Infinite Structures, University of Denver 2022
- Co-chair (with Lynne Yengulalp). Spring Topology and Dynamics Conference Program Committee for Special Session on Set-theoretic Topology 2021
- 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. SLALM (Latin American Symposium on Mathematical Logic) 2017
- Organizer (with Daniel Hathaway). AMS Western Sectional Special Session in Set Theory of the Reals, University of Denver 2016
- Organizer (with José Mijares). Ramsey Theory Conference, University of Denver, Colorado 2014
- Member of the Organizing Committee. BLAST Chapman University, Orange, California 2013
- Organizer. AMS Western Sectional Special Session in Set Theory and Boolean Algebras, University of Colorado - Boulder 2013
- Member of the Organizing Committee. Association for Symbolic Logic Winter Meeting 2012
- Organizer (with Bart Kastermans and Timothy Trujillo). Maximally Informal Gathering (MIG): *joint Logic Seminar with Colorado State University, CU Boulder, and the University of Denver* 2009 - 2016

PUBLICATIONS

TO BE SUBMITTED IN NOVEMBER

- [42] Martin Balko, David Chodounský, Natasha Dobrinen, Jan Hubička, Matěj Konečný, Lluís Vena, and Andy Zucker. Exact big Ramsey degrees via coding trees. 79 pp.
<https://arxiv.org/pdf/2110.08409.pdf>.

SUBMITTED ARTICLES

- [41] Natasha Dobrinen and Kaiyun Wang. Big Ramsey degrees in universal inverse limit structures. 20 pp. <https://arxiv.org/pdf/2012.08736.pdf>.
- [40] Rebecca Coulson, Natasha Dobrinen, and Rehana Patel. Fraïssé classes with simply characterized big Ramsey structures. 69 pp. <https://arxiv.org/pdf/2010.02034.pdf>.
- [39] Natasha Dobrinen. The Ramsey theory of Henson graphs. 75 pp.
<https://arxiv.org/pdf/1901.06660.pdf>.

PUBLISHED ARTICLES

- [38] Natasha Dobrinen. Ramsey theory of homogeneous structures: Current trends and open problems.
To appear in *2022 ICM Proceedings*. 22 pp. <https://arxiv.org/pdf/2110.00655.pdf>.
- [37] Natasha Dobrinen and Sonia Navarro Flores. Ramsey degrees of ultrafilters, pseudointersection numbers, and the tools of topological Ramsey spaces.
To appear in *Archive for Mathematical Logic*. 25 pp.
<https://arxiv.org/pdf/1911.09225.pdf>.
- [36] 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>.
- [35] 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.
- [34] Natasha Dobrinen and Daniel Hathaway. Classes of barren extensions.
Journal of Symbolic Logic. 86 (2021), no. 1, 178–209.
- [33] 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.
- [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 Todorcevic. 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 Todorcevic. 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 Todorcevic. 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

- [3] 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.
- [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 PREPARATION

- Martin Balko, David Chodounský, Natasha Dobrinen, Jan Hubička, Matěj Konečný, Lluis Vena, and Andy Zucker. Big Ramsey degrees of the generic partial order.
- Natasha Dobrinen. Baire spaces of Fraïssé structures in which all Borel sets are Ramsey.
- Natasha Dobrinen. Initial Rudin-Keisler and Tukey structures of ultrafilters forced by infinite dimensional Ellentuck spaces.
- Natasha Dobrinen, Michael Hrušák, and Sonia Navarro Flores. TRS ideals.
- Natasha Dobrinen and Sonia Navarro Flores. Towards a general Ramsey classification theory for topological Ramsey spaces.
- Natasha Dobrinen and Saharon Shelah. Halpern-Läuchli Theorems at large cardinals.

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 result, but not the method, is subsumed in the larger work [42].

LECTURES

INVITED CONFERENCE LECTURES AND TUTORIALS (85)

Plenary (23), Tutorials (4), Semi-Plenary (3), Special Sessions (24)

- International Congress of Mathematicians, St. Petersburg July 2022
- ULTRAMATH, Pisa (Plenary) June 2022
- Oberwolfach Workshop on Set Theory January 2022
- 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 November 2019
Special Session on Čech-Stone compactification of semigroups:
Algebra, Topology, Dynamics, and Combinatorics
Ramsey ultrafilters and friends
- 15th International Workshop on Set Theory, Luminy (50 minute) September 2019
Borel sets of Rado graphs have the Ramsey property
- Casa Matemática de Oaxaca (50 minute) September 2019
Workshop on Reverse Mathematics of Combinatorial Principles
Some problems in the reverse mathematics of Ramsey theory
- AMS Fall Central Sectional, Madison, WI September 2019
Special Session in Topology and Descriptive Set Theory
Borel partitions of a space of Rado graphs are Ramsey
- Midsummer Combinatorial Workshop, Prague July 2019
Ramsey theory on infinite graphs
- Logic Fest in the Windy City, UIC (Tutorial) May 2019
Ramsey theory on trees and applications to infinite graphs
- 50 Years of Set Theory in Toronto, Fields Institute (Plenary) May 2019
Strong coding trees and applications to Ramsey theory on infinite graphs
- Spring Topology and Dynamics Conference, Birmingham, AL March 2019
unable to attend due to a blizzard in Denver

- Arctic Set Theory Workshop 4, Kilpisjärvi, Finland (50 minute) January 2019
Ramsey theory of the Henson graphs
- ASL Winter Meeting, Joint Mathematics Meetings, Baltimore (Plenary) January 2019
Ramsey theory of the Henson graphs
- University of Vienna (Tutorial) January 2019
Infinitary Ramsey Theory
- Unifying Themes in Ramsey Theory, Banff November 2018
Ramsey theory of the Henson graphs
- Generalised Baire Spaces, KNAW, Amsterdam August 2018
Perfect tree forcings for singular cardinals
- Ramsey Theory in Logic, Combinatorics, and Complexity (50 minute) July 2018
Bertinoro International Center for Informatics, Italy
The Ramsey theory of the universal homogeneous triangle-free graph
- SETTOP, Novi Sad (Plenary) July 2018
The Ramsey theory of the universal homogeneous triangle-free graph
- ASL North American Meeting, Special Session on Set Theory (50 minute) May 2018
The Ramsey theory of universal homogeneous k -clique-free graphs
- 52nd Spring Topology and Dynamical Systems Conference March 2018
Special Session on Set-theoretic Topology
Applications of high dimensional Ellentuck spaces
- ASL-AMS Special Session on Logic and Ramsey Theory (50 minute) January 2018
Joint Mathematics Meetings, San Diego, CA
The universal homogeneous triangle-free graph has finite big Ramsey degrees
- First Mexico/USA Logic Fest, Mexico City January 2018
declined due to conflict with ASL-AMS Session
- 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
Session on Set-theoretic topology
declined due to previously scheduled research stay in Vienna. July 2014
- Set Theory Workshop, Freiburg (Plenary)
High dimensional Ellentuck spaces and initial chains in the Tukey types of non-p-points June 2014
- Association for Symbolic Logic North American Annual Meeting
Special Session in Honor of Rich Laver, University of Colorado - Boulder
Some recent progress in Ramsey theory May 2014
- Spring Topology and Dynamics Conference
Session on Set-theoretic topology, University of Richmond, VA
The initial Tukey structure below the generic ultrafilter forced by $\mathcal{P}(\omega \times \omega)/\text{Fin}^{\otimes 2}$ March 2014
- Oberwolfach Set Theory Workshop (50 minute)
Progress in Ramsey theory January 2014
- Fourth European Set Theory Conference, Barcelona (Semi-plenary)
General framework for topological Ramsey spaces and ultrafilters with partition properties July 2013
- Sy Friedman's 60th Birthday Conference, Vienna
Sliders July 2013
- Association for Symbolic Logic North American Annual Meeting
Special Session on Set Theory, Waterloo, Canada
Initial segments in of the Tukey hierarchy May 2013
- American Mathematical Society Spring Southeastern Sectional,
Special Session on Set Theory and Its Applications, Oxford, MS
missed due to broken wrist March 2013
- Arctic Set Theory, Kilpisjärvi, Finland
Ramsey theory and Tukey types February 2013
- Mathematical Logic and General Topology, Novi Sad (Plenary)
Tukey types of ultrafilters September 2012
- 15th Latin American Symposium on Mathematical Logic, Bogota
Special Session on Set Theory
The structure of the Tukey types of ultrafilters June 2012
- Online Panelist for the Association for Women in Mathematics
Panel on Coauthoring, Joint Mathematics Meeting January 2012
- Third European Set Theory Conference, Edinburgh (Plenary)
Canonization theorems on Ramsey spaces and their application to the Tukey theory of ultrafilters July 2011
- AMS, Sectional Meeting, UCLA (40 minute)
Special Session on Large Cardinals and the Continuum
Structure theorems for Tukey types of ultrafilters October 2010
- ASL North American Annual Meeting, Washington DC
Special Session on Set Theory
Tukey types of ultrafilters March 2010
- ISLA 2010, Hyderabad
Tukey types of ultrafilters January 2010

- 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 (53)

- 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 (37)

- 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

SERVICE

SERVICE TO THE PROFESSION

- Editor for *Annals of Pure and Applied Logic* 2020 - present
- Association for Symbolic Logic 2018 - 2020
Chair of the Committee for Logic in North America
Member of ASL Council
- Association for Symbolic Logic 2014 - 2017
Member of the Committee for Logic in North America
- Association for Symbolic Logic 2014 - 2017
Web Advisory Committee Member
- Conference Organizer and Program Committee Member 2008 - present
(see pages 1, 2 and 5)

THESIS COMMITTEE MEMBER

Member of PhD Dissertation Committees:

- 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

Member of Undergraduate Honor Thesis Committee:

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

PANELIST

- 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*

REVIEWER

- Outside reviewer for tenure and promotion 2021
- Reviewer for an AMS book manuscript in past three years
- Panelist for National Science Foundation twice in past five years
- Reviewer for NSF Grant Applications twice between 2010 and 2015
- Reviewer for PROF research grants, University of Denver 2013
- Reviewer for CUNY Grant Applications 2010

FREQUENT REFEREE FOR THE FOLLOWING JOURNALS

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

CURRENT SERVICE AT THE UNIVERSITY OF DENVER

- Member. Promotion Committee, Mathematics Department 2021 - 2022
- AWM Faculty Co-sponsor 2016 - present
Facilitate our student chapter of the Association for Women in Mathematics
- Graduate Student Women in Math Mentoring Coordinator 2012 - present
- Math Women Lunches Coordinator 2011 - present
- Member. Graduate Committee, Mathematics Department 2009 - present
- Faculty Advisor to undergraduate students 2008 - present
On average 10 undergraduates.
- Faculty Advisor to graduate students 2008 - present
On average 4 graduate students.

PAST SERVICE AT THE UNIVERSITY OF DENVER

- 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 2014 - 2016
Internationalization Counsel, University of Denver
- 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 Fall 2002 - Spring 2004
- Climate and Diversity Committee Member Fall 2002 - Spring 2004
- Women in Mathematics (WIM) Board member Spring 2003 - Spring 2004

MEMBERSHIPS IN MATHEMATICAL ORGANIZATIONS

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

TEACHING

COURSES TAUGHT AT THE UNIVERSITY OF DENVER

| | |
|--|-------------|
| 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 |

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| 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 |

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|---|-------------|
| 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.

TEACHING EVALUATIONS, UNIVERSITY OF DENVER 2007 - 2021

- Average Teaching Evaluation Score: 5.1 (2007 - 2021)

The Mathematics Department average is 4.9. Excellence in teaching is required for tenure at the University of Denver.

Recent evaluation scores for “Overall, this is an effective instructor.”

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|--|------|
| – Set Theory (MATH 3050) Spring 2021 | 6.0 |
| – Real Analysis I (MATH 3161) Spring 2020 | 5.38 |
| – Mathematical Logic (MATH 3060) Winter 2020 | 4.75 |
| – Perspectives in Art (MATH 1150) Winter 2020 | 4.91 |
| – Calculus 1 (MATH 1951) Fall 2019 | 5.0 |
| – Advanced Set Theory and Infinite Combinatorics (MATH 4705) Spring 2019 | 5.75 |
| – Perspectives in Art (MATH 1150) Spring 2019 | 5.38 |

QUOTES FROM STUDENTS

“Professor Dobrinen is a great instructor. She loves maths and cares a great deal about teaching it to the students in the best way possible. Her love for set theory was contagious. She inspired me to do better. 10/10 Would take a class with her again.” —Set Theory, Spring 2021

“Professor Dobrinen is an outstanding instructor. I have previously taken a class with her and she never stops to amaze me about how much she knows the content. It is a privilege to take a class with her because she is one of the professors who simplif[ies] (sic) complex topic in various ways. She is always well prepared and ready to teach the content with enthusiasm. The main strength of this course was that Professor Dobrinen communicated the content very well with her students. Her philosophy of focusing on the content and ways of teaching is what sets her apart from many of my other instructors. She is very flexible with the grading system as long as we learn the topic and takes away the stress of grades. It was an honor to take Set Theory and Mathematical Logic. Mathematical Logic is my last math class for my Bachelor of science degree with Professor Dobrinen. I will certainly miss her and her teaching method. She is one of the best instructors that I have ever had in my life. If I had to rate, then I would give Professor Dobrinen 10/10.” —Mathematical Logic, Winter 2020

“The course was very challenging, but that helped me to grow as a student. I found that the more challenging the course got, the more effort I was willing to put in to understand the content, and that made me enjoy the class.” —Mathematical Logic, Winter 2020

“Professor Dobrinen was knowledgeable and enthusiastic about the material. She cares deeply about her students and was very accommodating during this strange time. I appreciate her willingness to adjust the course throughout the quarter, as we were going through uncharted territory together. I appreciated the community we had in our class. Lastly, the assignments were clear and the grading was completely fair. Getting a good grade was attainable with hard work and dedication to learning (which I appreciate in a class that is known for being difficult to pass).” —Real Analysis 1 Spring 2020

“Professor Dobrinen is a wonderful instructor who explained concepts well and supported students in learning. She had multiple ways to explain difficult concepts and was readily available to support students outside of class.” —Calculus 1, Fall 2019

“Congenial, very smart, funny, professional, friendly, great teacher.” —Calculus 1, Fall 2019