

CURRICULUM VITAE  
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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  
Full Professor September 2016 - present  
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**  
• 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 higher education
- 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
- Penn State Faculty Escort for Student Marshall 2003
- Outstanding Teaching Award, University of Minnesota 2001
- ΦBK UC Berkeley 1996

## INDIVIDUAL RESEARCH GRANTS

- National Science Foundation Grant, P.I. September 2019 - August 2022  
*Logic, Ramsey Theory, and Relational Structures*, \$158,476
- National Science Foundation Grant, P.I. September 2013 - August 2016  
*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  
Mentoring Grant, P.I., \$2,800 2010
- University of Denver Faculty Research Fund Grant, P.I., \$3,000 2009
- Marsico Medium-Term Visiting Scholar Grant, P.I., \$3,000 2009  
*Supported Dr. Katherine Thompson of the University of Vienna:  
3 lectures and 2 lunches for undergraduates*

## CONFERENCE GRANTS

- 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**
  - Dr. Kaiyun Wang, Shaanxi Normal University, China (2018 - 2019)
  - Dr. 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

- 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 November 2018  
*Unifying Themes in Ramsey Theory*
- The Netherlands Royale 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, Toronto 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, Ireland August 2019
- Julia Knight, University of Notre Dame, South Bend, Indiana March 2019
- Dana Bartošová, Douglas Cenzer, and Jindřich Zapletal February 2019  
University of Florida, Gainesville
- Michael Hrušák, National University of Mexico, Morelia December 2018
- Norbert Sauer, University of Calgary, Canada November 2018
- Julia Knight, University of Notre Dame, South Bend, Indiana 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, 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, New York October 2013
- Steffen Lempp, University of Wisconsin, Madison 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 Todorcevic, 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, The Center For Theoretical Studies and The Academy of Sciences of the Czech Republic, Prague August 2003
- Elizabeth Brown and Marcia Groszek, Dartmouth College May 2003
- Bohuslav Balcar, The Center For Theoretical Studies and The Academy of Sciences of the Czech Republic, Prague August 2002

## CONFERENCE ORGANIZING

**BLAST Conference Series** 2008 - present

*This is 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 Member of Committees:

- Scientific Committee Member. BEST Conference Series 2018 - 2023
- Co-chair (with Lynn Yengulalp). Spring Topology and Dynamics Conference 2021  
Program Committee for Special Session on Seth-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

## PUBLICATIONS

### PREPRINTS TO BE SUBMITTED SOON

- [41] Martin Balko, David Chodounský, Natasha Dobrinen, Jan Hubička, Matěj Konečný, Lluís Vena, and Andy Zucker. Big Ramsey degrees of the generic partial order. 20+ pp.
- [40] Martin Balko, David Chodounský, Natasha Dobrinen, Jan Hubička, Matěj Konečný, Lluís Vena, and Andy Zucker. Exact big Ramsey degrees via coding trees. 60+ pp.
- [39] Rebecca Coulson, Natasha Dobrinen, and Rehana Patel. Fraïssé classes with simply characterized big Ramsey structures. 70 pp. arXiv:2010.02034

### SUBMITTED RESEARCH ARTICLES

- [38] Natasha Dobrinen and Kaiyun Wang. Big Ramsey degrees in universal inverse limit structures. 20 pp. arXiv:2012.08736
- [37] Natasha Dobrinen. The Ramsey theory of Henson graphs. 75 pp. arXiv:1901.06660

### PUBLISHED RESEARCH ARTICLES

- [36] 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. arXiv:1911.09225
- [35] Natasha Dobrinen and Daniel Hathaway. Classes of barren extensions.  
To appear in *Journal of Symbolic Logic*, 29 pp.
- [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: Adrian Rezus. 2020.
- [33] Natasha Dobrinen. Borel sets of Rado graphs and Ramsey's Theorem.  
*European Journal of Mathematics*, To appear in the special issue for Ramsey Theory DocCourse 2016, Prague. 29 pp. arXiv:1904.00266
- [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 Applied 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.  
*Proceedings of the 2016 SEALS Conference*, in Structure and Randomness in Computability and Set Theory, pp 3–58. World Scientific, Ed: Douglas Cenzer and Jindřich 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), 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 Todorcevic. 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.  $\kappa$ -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.

## PUBLISHED 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



## PUBLISHED INVITED BOOK REVIEWS

- [3] Natasha Dobrinen. Book Review: Appalachian Set Theory 2006 - 2012, James Cummings and Ernest Schimmerling Editors. *Bulletin for Symbolic Logic*. 20 (2014), no. 1, 94–97.
- [2] Natasha Dobrinen. Book review: Steven Givant and Paul Halmos, *Introduction to Boolean Algebras*. *Bulletin for Symbolic Logic*. 16 (2010), no. 2, 281–282.
- [1] Natasha Dobrinen. Book review: Herbert B. Enderton, *A Mathematical Introduction to Logic*, Second edition. *Bulletin for Symbolic Logic*. 9 (2003), no. 3, 406–407.

## IN PREPARATION

- Natasha Dobrinen. Initial Rudin-Keisler and Tukey structures of ultrafilters forced by infinite dimensional Ellentuck spaces. 20 pp.

## IN PROGRESS

- 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.
- Natasha Dobrinen, Aisling McCluskey, and Dmitry Shakhmatov. The powerset of the reals, ordered by homeomorphic embeddability, can represent all posets of cardinality  $2^c$ .

## 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, will appear in the larger work [40].

## TALKS

### INVITED CONFERENCE LECTURES AND TUTORIALS (81)

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

- SEALS, University of Florida, Gainesville (Plenary) February 2021  
*Ramsey theory on infinite structures*
- ULTRAMATH 2020, Pisa, Italy (Plenary) June 2020  
*postponed to 2022*
- ASL Special Session: Forcing and Ramsey Theory (40 minute) March 2020
- AMS-ASL Special Session: Logic Facing Outward (45 minute) January 2020  
*At the Joint Mathematics Meetings, Denver*
- AMS-ASL Special Session: Choiceless Set Theory and Related Areas January 2020  
*At the Joint Mathematics Meetings, Denver*
- DiPriscoFest, Universidad de los Andes, Bogotá, Colombia (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*
- CIRM, Luminy, France (50 minute, recorded) September 2019  
15th International Workshop on Set Theory, Luminy, France  
*Borel sets of Rado graphs have the Ramsey property*
- Casa Matemática de Oaxaca, Mexico (50 minute) September 2019  
*Some problems in the reverse mathematics of Ramsey theory*
- AMS Fall Central Sectional, Madison, Wisconsin September 2019  
Special Session in Topology and Descriptive Set Theory  
*Borel partitions of a space of Rado graphs are Ramsey*
- Midsummer Combinatorial Workshop, Prague, Čech Republic July 2019  
*Ramsey theory on infinite graphs*
- Logic Fest in the Windy City (Tutorial) May 2019  
*Ramsey theory on trees and applications to infinite graphs*
- 50 Years of Set Theory in Toronto (Plenary) May 2019  
*Strong coding trees and applications to Ramsey theory on infinite graphs*
- Spring Topology and Dynamics Conference, Birmingham, Alabama 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 November 2018  
Banff International Research Station  
*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, Serbia (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  
*Turned down due to conflict with ASL-AMS Session*
- Institut Camille Jordan, University of Lyon 1, France (Plenary) November 2017  
Workshop on Ultrafilters, Ramsey theory and dynamics  
*Ramsey theory, trees, and ultrafilters*
- CIRM, Luminy, France (50 minute) November 2017  
14th International Workshop on Set Theory  
*The universal triangle-free graph has finite big Ramsey degrees*
- 2nd Pan Pacific International Conference on Topology and Applications November 2017  
Busan, Republic of Korea  
Special Session on Set Theory  
*Turned down 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  
*Turned down 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, India  
*Ramsey theory on Trees and Applications*
- Special Session: Women in Topology, JMM January 2017  
*Turned down due to conflict with ICLA in India*

- Ramsey DocCourse, Prague, Čech Republic (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, Japan  
Tutorial - three 50-minute lectures  
*Ramsey theory in forcing*
- Applications of Set Theory to Topology September 2016  
Casa Matematica de Oaxaca and Banff International Research Station  
*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, China  
*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, Canada  
*High and higher dimensional Ellentuck spaces*
- Arctic Set Theory II, Kilpisjärvi, Finland 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  
*Turned down due to previously scheduled research stay in Vienna.*
- Set Theory Workshop, Freiburg, Germany (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, Virginia  
*The initial Tukey structure below the generic ultrafilter forced by  $\mathcal{P}(\omega \times \omega)/\text{Fin}^{\otimes 2}$*

- Oberwolfach Set Theory Workshop, Germany (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, Austria 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, Serbia (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*
- Joint Mathematics Meeting January 2012  
Online Panelist for the Association for Women in Mathematics  
Panel on Coauthoring
- Third European Set Theory Conference, Edinburgh, Scotland (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, India 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, Germany (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, Germany (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, Germany (Plenary) November 2004  
*Infintary games in Boolean algebras*
- ASL Annual Meeting, Carnegie Mellon University May 2004  
Special Session in Set Theory  
 *$\kappa$ -stationary subsets of  $\mathcal{P}_{\kappa}\lambda$  and relationships with infinitary distributive laws and related games in Boolean algebras*
- MAMLS, Hofstra (Plenary) March 2004  
*Infintary 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 (52)

- Models and Sets Seminar, University of Leeds May 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  
*Fraïssé classes with simply characterized big Ramsey degrees.*
- Mathematics Colloquium, Boise State University, Idaho March 2020
- UCLA Logic Seminar February 2020
- Bar-Ilan University, Israel December 2019
- Logic Seminar, The Hebrew University of Jerusalem December 2019
- 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 January 2019  
*Ramsey theory and infinite graphs*
- KGRC, Vienna 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 Matematica, Barcelona, Spain December 2016  
*The universal triangle-free graph probably has finite Ramsey degrees*
- Colloquium, Mathematics Department, Auburn University, AL 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*
- University of Calgary Discrete Mathematics Lectures 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, Toronto 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  
 *$\kappa$ -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*



- Pennsylvania State University Mathematical Logic Seminar April 2001  
*A complete embedding of the Cohen algebra into the Argyros algebra*

#### CONTRIBUTED TALKS (35)

- 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  
 *$\kappa$ -stationary subsets of  $\mathcal{P}_{\kappa+\lambda}$*
- Prague Winter School in Abstract Analysis, Bohemia February 2005  
 *$\kappa$ -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)

### 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

- Reviewer for an AMS book manuscript 2020
- Panelist for National Science Foundation within last five years
- Reviewer for NSF Grant Applications 2015
- Reviewer for PROF research grants, University of Denver 2013
- Reviewer for NSF Grant Applications 2010
- Reviewer for CUNY Grant Applications 2010

### 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

**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**

- AWM Faculty Co-sponsor 2016 - present  
*Facilitate our student chapter of the Association for Women in Mathematics*
- Math Department Graduate Student Professionalism and Inclusive Excellence Training 2015 - present  
*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*
- 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
- Leader. Orientation 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

- 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.  
for one Tenure-track Assistant Professor Position 2016 - 2017
- Member. Tenure Review Committee, Math Dept. 2016 - 2017
- Member. Pre-tenure Review Committee, Math Dept. 2016 - 2017
- Chair. Hiring Committee, Math Dept.  
for two Teaching Assistant Professor Positions 2015 - 2016
- 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
- Independent Study Adviser  
*Spring 2008, Autumn 2008, Spring 2009, Autumn 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

## TEACHING

### COURSES TAUGHT AT THE UNIVERSITY OF DENVER

MATH 4705 – Infinitary Ramsey Theory (graduate course)	Autumn 2021
MATH 3161/4161 – Real Analysis I	Autumn 2021
MATH 3050 – Set Theory	Spring 2021
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 / 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

- Participant, Inclusive Teaching in STEM Workshops 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

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