

Contact Information:

Email: bprhoades@math.ucsd.edu
Website: <http://www.math.ucsd.edu/~bprhoades>

Office Address:

Department of Mathematics
University of California, San Diego
9500 Gilman Drive # 0112
La Jolla, CA, 92093-0112

Education:

Ph.D. in Mathematics. University of Minnesota. Minneapolis, MN. July 2008.
Advisor: Victor Reiner

B.S. in Mathematics (Physics minor). University of Michigan. Ann Arbor, MI. April 2005.

Employment:

University of California, San Diego. La Jolla, CA.
Professor, Department of Mathematics. 2020 - present.
Associate Professor, Department of Mathematics. 2016 - 2020.
Assistant Professor, Department of Mathematics. 2012 - 2016

University of Southern California. Los Angeles, CA.
NTT Assistant Professor, Department of Mathematics. 2011- 2012.

Massachusetts Institute of Technology. Cambridge, MA.
NSF Postdoctoral Research Fellow/Instructor of Applied Mathematics. 2009 - 2011.
Sponsoring Scientist: Richard Stanley.

University of California, Berkeley. Berkeley, CA.
NSF Postdoctoral Research Fellow/Visiting Assistant Professor. 2008 - 2009.
Sponsoring Scientist: Mark Haiman.

Awards:

NSF Grant (DMS-1953781). \$128,583. 2020-2023.
'Combinatorics, Representations, and Catalan Theory'

Simons Foundation Collaboration Grant. \$42,000. 2020-2025.

‘Research in Algebraic Combinatorics’
(Awarded 2020, Declined due to NSF Grant DMS-1953781.)

NSF Grant (DMS-1500838). \$180,000. 2015-2020.
‘Combinatorics, Representations, and Catalan Theory’

NSA Young Investigator Award (Proposal 141013). \$40,000. 2016-2018.
‘Topics in Algebraic Combinatorics’
(Awarded 2015, Declined due to NSF Grant DMS-1500838.)

Simons Foundation Collaboration Grant. \$35,000. 2015-2020.
‘Research in Algebraic Combinatorics’
(Awarded 2015, Declined due to NSF Grant DMS-1500838.)

NSF Grant (DMS-1068861). \$135,000. 2011-2015.
‘Combinatorics and Representation Theory’

NSF Mathematical Sciences Postdoctoral Research Fellowship. 2008-2011.

Graduate Student Fellowship, University of Minnesota. 2005-2007.

Preprints:

43. Superpartitions and superspace duality modules. (with Andrew Timothy Wilson) Submitted, 2021. [arXiv:2104.05630](https://arxiv.org/abs/2104.05630).

42. Packed words and quotient rings. (with Daniël Kroes) Submitted, 2021. [arXiv:2104.00156](https://arxiv.org/abs/2104.00156).

41. Spanning subspace configurations and representation stability. (with Brendan Pawlowski and Eric Ramos) Submitted, 2019. [arXiv:1907.07268](https://arxiv.org/abs/1907.07268).

Accepted Papers Awaiting Publication:

40. Cyclic sieving and orbit harmonics. (with Jaeseong Oh) Accepted, *Math. Z.*, 2021. [arXiv:2010.08074](https://arxiv.org/abs/2010.08074).

39. Increasing subsequences and Kronecker coefficients. (with Jonathan Novak) To appear in the AMS volume *Open Problems in Algebraic Combinatorics* to accompany the OPAC 2022 conference at U. Minnesota. [arXiv:2006.13146](https://arxiv.org/abs/2006.13146).

Published Papers:

38. Spanning subspace configurations. *Selecta Math. (N.S.)*, **27 (8)**, <https://doi.org/10.1007/s00029-021-00617-6>. (36 pages)

37. Higher Specht bases for generalizations of the coinvariant ring. (with Maria Gillespie) *Ann. Comb.*, **25 (1)** (2021), 51–77.

36. Harmonic bases for generalized coinvariant algebras. (with Tianyi Yu and Zehong Zhao)

Electron. J. Combin., **27** (4) (2020), P4.16 (23 pages).

35. Lefschetz theory for exterior algebras and fermionic diagonal coinvariants. (with Jongwon Kim) *Int. Math. Res. Not. IMRN* (2020), rnaa203, <https://doi.org/10.1093/imrn/rnaa203>. (28 pages)

34. Generalized coinvariant algebras for wreath products. (with Kin Tung Jonathan Chan) *Adv. Appl. Math.*, **120** (2020), Article 102060.

33. Vandermondes in superspace. (with Andrew Timothy Wilson) *Trans. Amer. Math. Soc.*, **373** (6) (2020), 4483–4516.

32. Boolean product polynomials, Schur positivity, and Chern plethysm. (with Sara Billey and Vasu Tewari) *Int. Math. Res. Not. IMRN* (2019), rnz261. <https://doi.org/10.1093/imrn/rnz261>. (35 pages)

31. The polytabloid basis expands positively into the web basis. *Forum Math. Sigma*, **7** (2019), e26. (8 pages)

30. Line arrangements and r -Stirling partitions. (with Andrew Timothy Wilson) *J. Comb. (Special issue honoring Jeff Remmel)* **10** (3) (2019), 411–431.

29. Hall-Littlewood expansions of Schur delta operators at $t = 0$. (with Jim Haglund and Mark Shimozono) *Sém. Loth. Comb.*, **B79c** (2019), 20 pp.

28. A flag variety for the Delta Conjecture. (with Brendan Pawlowski) *Trans. Amer. Math. Soc.*, **372** (2019), 8195–8248.

27. Hall-Littlewood polynomials and a Hecke action on ordered set partitions. (with Jia Huang and Travis Scrimshaw) *Proc. Amer. Math. Soc.*, **147** (5) (2019), 1839–1850.

26. Ordered set partitions and the 0-Hecke algebra. (with Jia Huang) *Algebr. Comb.*, **1** (1) (2018), 47–80.

25. Ordered set partitions, generalized coinvariant algebras, and the Delta Conjecture. (with Jim Haglund and Mark Shimozono) *Adv. Math.*, **329** (2018), 851–915.

24. Ordered set partition statistics and the Delta Conjecture. *J. Combin. Theory Ser. A*, **154** (2018), 172–217.

23. Tail positive words and generalized coinvariant algebras. (with Andrew Timothy Wilson) *Electron. J. Combin.*, **24** (3) (2017), P3.21. (29 pages)

22. Evidence for parking conjectures. *J. Combin. Theory Ser. A*, **146** (2017), 201–238.

21. A skein action of the symmetric group on noncrossing partitions. *J. Algebraic Combin.*, **45** (1) (2017), 81–127.

20. The polytope of Tesler matrices. (with Karola Mészáros and Alejandro Morales) *Selecta Math. (N.S.)*, **23** (1) (2017), 425–454.

19. Cyclic sieving and rational Catalan theory. (with Michelle Bodnar) *Electron. J. Combin.*, **23 (2)** (2016) P2.4. (38 pages)
18. Alexander duality and rational associahedra. *SIAM J. Discrete Math.*, **29 (1)** (2015), 431-460.
17. Parking spaces. (with Drew Armstrong and Vic Reiner) *Adv. Math.*, **269** (2015), 647-706.
16. Bijections for the Shi and Ish arrangements. (with Emily Leven and Andrew Timothy Wilson) *European J. Combin.* **39C** (2014), 1-23.
15. Parking structures: Fuss analogs. *J. Algebraic Combin.*, **40 (2)** (2014), 417-473.
14. Extending the parking space. (with Andrew Berget) *J. Combin. Theory Ser. A*, **123 (1)** (2014), 43-56.
13. Rational associahedra and noncrossing partitions. (with Drew Armstrong and Nathan Williams) *Electron. J. Combin.*, **20 (3)** (2013) P54. (27 pages)
12. Combinatorics of Tesler matrices in the theory of parking functions and diagonal harmonics. (with Drew Armstrong, Adriano Garsia, James Haglund, and Bruce Sagan) *J. Comb.*, **3 (3)** (2012), 451-494.
11. The Shi arrangement and the Ish arrangement. (with Drew Armstrong) *Trans. Amer. Math. Soc.*, **364** (2012), 1509-1528.
10. Enumeration of connected Catalan objects by type. *European J. Combin.*, **32 (2)** (2011), 330-338.
9. Bitableaux and zero sets of dual canonical basis elements. (with Mark Skandera) *Ann. Comb.*, **13 (3)** (2011), 499-528.
8. Cyclic sieving and cluster multicomplexes. *Adv. in Appl. Math.*, **45** (2010), 470-486.
7. The cluster and dual canonical bases of $\mathbb{Z}[x_{11}, \dots, x_{33}]$ are equal. *Discrete Math. Theor. Comput. Sci.*, **12 (5)** (2010), 97-124.
6. Hall-Littlewood polynomials and fixed point enumeration. *Discrete Math.*, **310 (4)** (2010), 869-876.
5. Cyclic sieving, promotion, and representation theory. *J. Combin. Theory Ser. A*, **117 (1)** (2010), 38-76.
4. Kazhdan-Lusztig immanants and products of matrix minors, II. (with Mark Skandera) *Linear Multilinear Algebra*, **58 (2)** (2010), 137-150.
3. Promotion and cyclic sieving via webs. (with Kyle Petersen and Pasha Pylyavskyy) *J. Algebraic Combin.*, **30 (1)** (2009), 19-41.

2. Kazhdan-Lusztig immanants. (with Mark Skandera) *J. Algebra*, **304** (2) (2006), 793-811.
 1. Temperley-Lieb immanants. (with Mark Skandera) *Ann. Comb.*, **9** (4) (2005), 451-495.
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Presentation Venues:

93. Mathematics Colloquium. Seoul National University. April, 2021. (Invited, via Zoom)
92. Afternoon Seminar on Hyperplane Arrangements (Shinshu University, Japan). June, 2020. (Invited, via Zoom)
91. Algebraic Combinatorics Online Workshop (KTH, Sweden). April, 2020. (Invited, via Zoom)
90. University of Minnesota Combinatorics Seminar. April, 2020. (Invited, via Zoom)
89. Rocky Mountain Algebraic Combinatorics Seminar. Fort Collins, CO, USA. December, 2019. (Invited)
88. 2nd Annual Meeting of SIAM Texas-Louisiana Section. Dallas, TX, USA. November, 2019. (Invited)
87. Mathematics Colloquium, University of Texas at Dallas. Richardson, TX, USA. November, 2019. (Invited)
86. Discrete Math Seminar, Arizona State University. Tempe, AZ, USA. September, 2019. (Invited)
85. Mathematics Colloquium, Arizona State University. Tempe, AZ, USA. September, 2019. (Invited)
84. Combinatorics Seminar, University of Michigan. Ann Arbor, MI, USA. September, 2019. (Invited)
83. Hilbert schemes, categorification, and combinatorics. University of California, Davis. Davis, CA, USA. June, 2019. (Invited)
82. Algebraic and geometric methods in combinatorics. CanaDAM 2019. Vancouver, BC, Canada. May, 2019. (Invited)
81. Mathematics Colloquium. Shinshu University. Matsumoto, Japan. April, 2019. (Invited)
80. Mathematics Colloquium. Sungkyunkwan University. Suwon, South Korea. April, 2019. (Invited)
79. One-Day Meeting in Combinatorics. Applied Algebra and Optimization Research Center. Sungkyunkwan University. Suwon, South Korea. April, 2019. (Invited)

78. Combinatorics Seminar, Washington University in St. Louis. St. Louis, MO, USA. March, 2019. (Invited)
77. Mathematics Colloquium, Washington University in St. Louis. St. Louis, MO, USA. March, 2019. (Invited)
76. CombinaTexas. College Station, TX, USA. March, 2019. (Invited, Plenary)
75. Representation Theory Connections to (q, t) -Combinatorics. Banff, AB, Canada. January, 2019. (Invited)
74. Mathematics Colloquium, San Diego State University. San Diego, CA, USA. October, 2018. (Invited)
73. Mathematics Colloquium, Michigan State University. East Lansing, MI, USA. September, 2018. (Invited)
72. AMS Special Session on Macdonald Polynomials and Related Structures. Nashville, TN, USA. April, 2018. (Invited)
71. Mathematics Colloquium, University of Pennsylvania. Philadelphia, PA, USA. March, 2018. (Invited)
70. Combinatorics Seminar, UQAM. Montréal, QC, Canada. March, 2018. (Invited)
69. Combinatorics Seminar, University of Southern California. Los Angeles, CA, USA. February, 2018.
68. Joint Mathematical Meetings. AMS Special Session on Dynamical Algebraic Combinatorics. San Diego, CA, USA. January, 2018. (Invited)
67. Algebra and Discrete Mathematics Seminar, University of California, Davis. Davis, CA, USA. December, 2017. (Invited)
66. Combinatorics Seminar, University of California, San Diego. San Diego, CA, USA. November, 2017.
65. AMS Special Session on Combinatorial Representation Theory. Riverside, CA, USA. November, 2017. (Invited)
64. Combinatorics Seminar, University of Michigan. Ann Arbor, MI, USA. September, 2017.
63. Equivariant Combinatorics. Université de Montréal. Montréal, QC, Canada. June, 2017. (Invited)
62. Combinatorics Seminar, Caltech. Pasadena, CA, USA. March, 2017. (Invited)
61. Mathematics Colloquium, Western Washington University. Bellingham, WA, USA. December, 2016. (Invited)

60. Combinatorics Seminar, University of Washington. Seattle, WA, USA. November, 2016.
59. Combinatorics Seminar, University of Minnesota. Minneapolis, MN, USA. October, 2016.
58. Summer Conference on Hyperplane Arrangements. Hokkaido University. Sapporo, Japan. August, 2017. (Invited)
57. Workshop on Positivity in Algebraic Combinatorics. Korea Institute for Advanced Study (KIAS). Seoul, South Korea. June, 2016. (Invited)
56. AMS Special Session on Combinatorial Ideals and Applications. Fargo, ND, USA. April, 2016. (Invited)
55. AMS Special Session on Algebraic Combinatorics. Salt Lake City, UT, USA. April, 2016. (Invited)
54. Combinatorics Seminar, University of Southern California. Los Angeles, CA, USA. March, 2016. (Invited)
53. Joint Mathematics Meetings. AMS Special Session on Algebraic and Topological Methods in Combinatorics. Seattle, WA, USA. January, 2016. (Invited)
52. Algebra and Discrete Mathematics Seminar, University of California, Davis. Davis, CA, USA. December, 2015. (Invited)
51. Invited Address, AMS Western Sectional Spring Meeting. Las Vegas, NV, USA. April, 2015. (Invited, Plenary)
50. Graduate Student Colloquium, University of California, San Diego. San Diego, CA, USA. March, 2015.
49. Combinatorics Seminar, University of California, Los Angeles. Los Angeles, CA, USA. January, 2015. (Invited)
48. AMS Special Session on Generalized Catalan Algebraic Combinatorics. Halifax, NS, Canada. October, 2014. (Invited)
47. Combinatorics Seminar, University of Michigan. Ann Arbor, MI, USA. September, 2014. (Invited)
46. Algebra-Geometry-Combinatorics Seminar, San Francisco State University. San Francisco, CA, USA. May, 2014.
45. Combinatorics, Algebra, and Geometry Seminar, University of Pennsylvania. Philadelphia, PA, USA. April, 2014. (Invited)
44. Center for Communications Research. La Jolla, CA, USA. October, 2013. (Invited)

43. Canadian Discrete and Algorithmic Mathematics 2013. St. John's, NL, Canada. June, 2013. (Invited)
42. Algebra-Geometry-Combinatorics Seminar, University of Illinois, Urbana-Champaign. Urbana, IL, USA. April, 2013. (Invited)
41. Combinatorics Seminar, University of Washington. Seattle, WA, USA. February, 2013.
40. Discrete Mathematics Seminar, University of British Columbia. Vancouver, BC, Canada. January, 2013. (Invited)
39. Mathematics Colloquium, University of California, San Diego. La Jolla, CA, USA. November, 2012.
38. Algebra & Discrete Mathematics Seminar, University of California, Davis. Davis, CA, USA. May, 2012. (Invited)
37. Mathematics Colloquium, Washington University in St. Louis. Saint Louis, MO, USA. February, 2012. (Invited)
36. Mathematics Colloquium, University of Massachusetts, Boston. Boston, MA, USA. February, 2012. (Invited)
35. Mathematics Colloquium, University of South Florida. Tampa, FL, USA. February, 2012. (Invited)
34. Mathematics Colloquium, Syracuse University. Syracuse, NY, USA. January, 2012. (Invited)
33. Mathematics Colloquium, Loyola University - Chicago. Chicago, IL, USA. January, 2012. (Invited)
32. Mathematics Colloquium, University of California, San Diego. La Jolla CA, USA. January, 2012. (Invited)
31. University of California, Los Angeles Combinatorics Seminar. Los Angeles, CA, USA. October, 2011. (Invited)
30. Formal Power Series and Algebraic Combinatorics conference. Reykjavik, Iceland. June, 2011.
29. Center for Communications Research. Princeton, NJ, USA. March, 2011. (Invited)
28. Mathematics Colloquium, University of Waterloo. Waterloo, ON, Canada. January, 2011. (Invited)
27. Mathematics Colloquium, The Ohio State University. Columbus, OH, USA. January, 2011. (Invited)
26. AMS Special Session on Algebraic Combinatorics. South Bend, IN, USA. November, 2010. (Invited)

25. Dartmouth Combinatorics Seminar. Hanover, NH, USA. May, 2010. (Invited)
24. AMS Special Session on Combinatorial Representation Theory. Saint Paul, MN, USA. April, 2010. (Invited)
23. University of Miami Combinatorics Seminar. Miami, FL, USA. March, 2010. (Invited)
22. AMS Special Session on Algebraic Combinatorics. University Park, PA, USA. October, 2009. (Invited)
21. MIT Combinatorics Seminar. Cambridge, MA, USA. September, 2009. (Invited)
20. Bay Area Discrete Math Day. Stanford, CA, USA. September, 2008. (Invited)
19. Formal Power Series and Algebraic Combinatorics conference. Vina del Mar, Chile. June, 2008.
18. Algebra & Discrete Mathematics Seminar, University of California, Davis. Davis, CA, USA. May, 2008. (Invited)
17. Graduate Student Combinatorics Conference. Davis, CA, USA. April, 2008.
16. Representation Theory, Geometry, and Combinatorics Seminar, University of California, Berkeley. Berkeley, CA, USA. April, 2008. (Invited)
15. AMS Special Session on Combinatorial Representation Theory, Topological Combinatorics, and Interactions Between Them. Bloomington, IN, USA. April, 2008. (Invited)
14. Algebra-Geometry-Combinatorics Seminar, San Francisco State University. San Francisco, CA, USA. February, 2008. (Invited)
13. Geometry, Algebra, and Singularities Seminar, Northeastern University. Boston, MA, USA. November, 2007.
12. MIT Combinatorics Seminar. Cambridge, MA, USA. November, 2007.
11. Combinatorics Seminar, University of Michigan. Ann Arbor, MI, USA. September, 2007. (Invited)
10. Combinatorics Seminar, University of Minnesota. Minneapolis, MN, USA. September, 2007.
9. Graduate Student Combinatorics Conference. Seattle, WA, USA. April, 2007.
8. Combinatorics Seminar, University of California, Berkeley. Berkeley, CA, USA. December, 2006.
7. Combinatorics Seminar, University of Washington. Seattle, WA, USA. November, 2006.
6. Combinatorics Seminar, University of Minnesota. Minneapolis, MN, USA. September, 2006.

5. Combinatorics Seminar, University of Kansas. Lawrence, KS, USA. September, 2006.
 4. Graduate Student Combinatorics Conference. Madison, WI, USA. April, 2006.
 3. Graduate Student Combinatorics Conference. Minneapolis, MN, USA. April, 2005.
 2. Combinatorics Seminar, University of Minnesota. Minneapolis, MN, USA. March, 2005. (Invited)
 1. Applied Algebra Seminar, York University. Toronto, ON, Canada. February, 2005. (Invited)
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Teaching Experience:

- Math 190B - Foundations of Topology II. UCSD. W20, S21.
 - Math 202B - Applied Algebra II. UCSD. W15, W17, W18, W19, W21.
 - Math 184 - Enumerative Combinatorics. UCSD. F13, F17, F18, W21.
 - Math 100C - Abstract Algebra III. UCSD. S17, S20.
 - Math 188 - Algebraic Combinatorics. UCSD. W20.
 - Math 264B - (Graduate) Combinatorics II. UCSD. W19.
 - Math 264A - (Graduate) Combinatorics I. UCSD. F18.
 - Math 202C - Applied Algebra III. UCSD. S16, S17, S18.
 - Math 190A - Foundations of Topology I. UCSD. F14, W16, W18.
 - Math 154 - Discrete Math & Graph Theory. UCSD. W17.
 - Math 109 - Introduction to Mathematical Reasoning. UCSD. W14, S16.
 - Math 20A - Calculus for Science and Engineering I. UCSD. F13, S16.
 - Math 200A - (Graduate) Algebra I. UCSD. F15.
 - Math 103A - Modern Algebra I. UCSD. W14.
 - Math 262A - Reflection Groups. UCSD. S13.
 - Math 20B - Calculus for Science and Engineering II. UCSD. W13.
 - Math 104A - Number Theory I. UCSD. F12.
 - Math 225 - Linear Algebra and Differential Equations. USC. W12.
 - Math 117 - Introduction to Mathematics for Business and Economics. USC. F11.
 - 18.01 - Calculus 1. MIT. F09.
 - Math 281 - Representation Theory. UC - Berkeley. W09.
 - Math 1271 - Calculus 1. University of Minnesota. F07.
 - Math 1142 - Short Calculus. University of Minnesota. F05, F06.
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Mentoring:

- **Postdoctoral Scholars**
 - Joshua Swanson (SEW Assistant Professor, 2018-2021)
 - Sean Griffin (Instructor, UC San Diego, Fall 2020)
 - Marino Romero (UC Presidential Fellow, 2020-2021)
- **Ph.D. Students**
 - Tianyi Yu
 - Jesse Kim

- Daniël Kroes (Graduated, Spring 2021)
- Kyle Meyer (Graduated, Spring 2020)
- Dun Qiu (Graduated, Spring 2019, Currently tenure-track at Beijing Jiaotong U.)
- Michelle Bodnar (Graduated, Spring 2018, Currently at Google)

- **Undergraduate Research Students**

- Jiazheng Liu, Summer 2020.
- Tianyi Yu and Zehong Zhao, Summer 2019.
- Jonathan Chan, Summer 2016.
- Curriculum development, Collaborative Undergraduate Research Experience (CURE), UCSD, Summer 2015. Research Experience for Undergraduates with three student participants.
- Curriculum development, Collaborative Undergraduate Research Experience (CURE), UCSD, Summer 2014. Research Experience for Undergraduates with five student participants.
- Jonathan Haapala, Summer 2014.

Professional Service:

Editor-in-Chief, Algebraic Combinatorics (2021-present).

Managing Editor, Journal of Combinatorics (2019-present).

Journal Referee for Advances in Mathematics, Algebraic Combinatorics, Annals of Combinatorics, Australasian Journal of Combinatorics, Communications in Algebra, Discrete and Computational Geometry, Discrete and Continuous Dynamical Systems - Series A, Discrete Mathematics, Electronic Journal of Combinatorics, European Journal of Combinatorics, Formal Power Series and Algebraic Combinatorics conference proceedings, International Mathematics Research Notices, Involve, Journal of Algebraic Combinatorics, Journal of Combinatorial Theory - Series A, Journal of Combinatorics, Journal of Integer Sequences, Manuscripta Mathematica, Proceedings of the American Mathematical Society, Rocky Mountain Journal of Mathematics, Selecta Mathematica (New Series), Transactions of the American Mathematical Society.

Program Committee, Formal Power Series and Algebraic Combinatorics 2017. London, UK.

Program Committee, Formal Power Series and Algebraic Combinatorics 2021. Ramat Gan, Israel.

Grant Proposal Review:

- NSF panelist (3 times)
- Ad hoc NSF reviewer (1 proposal)
- Ad hoc NSA reviewer (2 proposals)
- Israel Science Foundation (1 proposal)
- Marsden Fund (New Zealand) (1 proposal)
- Research Grants Council of Hong Kong (2 proposals)
- Austrian Academy of Sciences (1 proposal)

Served on the committee for the Advancement to Candidacy of Andy Wilson (S13), Quang Bach (S14), Michael Tait (S14), Ran Pan (F14), Luvreet Sangha (W15), Sittipong “Kuang” Thamrongpaïroj (S15), Dun Qiu (S16), Geoff Ganzberger (S18), Xindong Tang (S19), Chengjie Huang (F19).

Served on the thesis defense committee for Andy Wilson (S15), Quang Bach (S27), Michael Tait (S16), Ran Pan (S16), Marino Romero (S19), Sittipong “Kuang” Thamrongpaïroj (F19), Mozhgan Mirzaei (S20).

UCSD Undergraduate Curriculum Task Force (2018).

UCSD Graduate Colloquium organizer, W19, W20.

UCSD Undergraduate Colloquium organizer, F12, F16, W18.

UCSD Graduate Admissions Committee (W14, W15, W16, W17, W18).

UCSD Hiring Committee (18-19, 19-20).

Speaker for “What’s going on in Combinatorics?” at the UCSD Graduate Open House, S13, S17.

Speaker at award banquet for the UCSD High School Honors Math Contest, S13.

San Diego Math Circle teacher, W15.