

Curriculum Vitae Russ Woodroffe

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Personal information: US citizen.

Research interests

Geometric and topological combinatorics, including connections with group theory (especially subgroup lattices) and with commutative algebra (face rings and edge ideals).

Academic positions

- University of Primorska
 - Redni profesor / Full Professor Nov 2023 –
 - Izredni profesor / Associate Professor Oct 2017 – Nov 2023
- Mississippi State University (Assistant Professor) Aug 2012 – Aug 2017
- Washington University in St. Louis
 - William Chauvenet Postdoctoral Lecturer Sep 2008 – May 2012
 - Visiting Research Scholar Jan 2008 – Aug 2008
- Weill Cornell Medical College in Qatar
 - Lecturer Aug 2006 – Dec 2007
 - Academic Assistant Aug 2005 – May 2006

Education

- PhD, 2005, Cornell University, mathematics. (Advisor [Kenneth S. Brown.](#))
- MS, 2002, Cornell University, mathematics.
- BS, 1998, University of Michigan, mathematics and computer science. (Honors in both.)

Grants

- PI, Slovenian Research Agency (ARRS) Research project grant. Award amount 100,000 eur / year. (2021 – 2024, extended through 2025)
- PI, Slovenian Research Agency (ARRS) ERC-complementary grant. Award amount 100,000 eur / year. (2020 – 2023)
- PI, Slovenian Research Agency (ARRS) bilateral project grant with Russia. Award amount 1875 eur / year. (2019 – 2020)
- PI, Slovenian Research Agency (ARRS) bilateral project grant with USA. Award amount 1500 eur / year. (2018 – 2020)
- Foreign PI, Slovenian Research Agency (ARRS) bilateral project grant (PI Dragan Stevanović). Award amount 1785 eur / year. (2015 – 2016)

Awards and honors

- Guido L. Weiss Teaching and Service Award from Washington University in St. Louis Department of Mathematics (Spring 2011).

Papers and preprints (see <https://osebje.famnit.upr.si/~russ.woodroffe/research.html>)

h-index: 11 i10-index: 11 (both according to [Google Scholar](#))

28. Denys Bulavka and Russ Woodroffe, *Strict Erdős-Ko-Rado theorems for simplicial complexes*, [arXiv:2503.15608](#).
27. Denys Bulavka and Russ Woodroffe, *A short proof of the Hilton-Milner Theorem*, [arXiv:2411.02513](#).
26. Denys Bulavka, Francesca Gandini, and Russ Woodroffe, *A Hilton-Milner theorem for exterior algebras*, [arXiv:2406.17857](#).

25. David Eppstein, Joel Brewster Lewis, Russ Woodroffe, and XOR'easter, *Princ-wiki-a Mathematica: Wikipedia Editing and Mathematics*, Notices Amer. Math. Soc. **72** (2025), no. 1, 65–73, [arXiv:2412.20419](#). (Professional paper)
24. Anton Dochtermann, Ritika Nair, Jay Schweig, Adam Van Tuyl, and Russ Woodroffe, *Simplicial complexes with many facets are vertex decomposable*, Electron. J. Combin. **31** (2024), no. 4, Paper P4.34, 11 pages, [arXiv:2403.07316](#).
23. Robert M. Guralnick, John Shareshian, and Russ Woodroffe, *Invariable generation of finite simple groups and rational homology of coset posets*, J. Algebra **659** (2024), 686–697, [arXiv:2312.16319](#).
22. Dániel T. Nagy, Zoltán Lóránt Nagy, and Russ Woodroffe, *The extensible No-Three-In-Line problem*, European J. Combin. **114** (2023), Paper 103796, 11 pages, [arXiv:2209.01447](#).
21. Robert M. Guralnick, John Shareshian, and Russ Woodroffe, *On invariable generation of alternating groups by elements of prime and prime power order*, Math. Comp. **192** (2023), no. 341, 1349–1361, [arXiv:2201.12371](#).
Code on [GitHub](#); computational data on [Zenodo](#).
20. Russ Woodroffe, *An algebraic groups perspective on Erdős-Ko-Rado*, Linear Multilinear Algebra **70** (2022), no. 22, 7825–7835, [arXiv:2007.03707](#).
19. Stephan Foldes and Russ Woodroffe, *A modular characterization of supersolvable lattices*, Proc. Amer. Math. Soc. **150** (2022), no. 1, 31–39, [arXiv:2011.11657](#).
18. Andrés Santamaría-Galvis and Russ Woodroffe, *Shellings from relative shellings, with an application to NP-completeness*, Discrete Comput. Geom. **66** (2021), no. 2, 792–807, [arXiv:1906.01651](#).
17. John Shareshian and Russ Woodroffe, *Divisibility of binomial coefficients and generation of alternating groups*, Pacific J. Math. **292** (2018), no. 1, 223–238, [arXiv:1505.05143](#).
16. Alireza Abdollahi, Russ Woodroffe, and Gjergji Zaimi, *Frankl's Conjecture for subgroup lattices*, Electron. J. Combin. **24** (2017), no. 3, Paper 25, 9 pages, [arXiv:1606.00011](#).
15. Jay Schweig and Russ Woodroffe, *A broad class of shellable lattices*, Adv. Math. **313** (2017), 537–563, [arXiv:1604.03115](#).

14. John Shareshian and Russ Woodroffe, *Order complexes of coset posets of finite groups are not contractible*, Adv. Math. **291** (2016), 758–773, [arXiv:1406.6067](#).
13. Huy Tài Hà and Russ Woodroffe, *Results on the regularity of square-free monomial ideals*, Adv. Appl. Math. **58** (2014), 21–36, [arXiv:1301.6779](#).
A **corrigendum** to Lemma 3.4 of the paper appears in Adv. Appl. Math. **86** (2017), 175–177.
12. Russ Woodroffe, *Matchings, coverings, and Castelnuovo-Mumford regularity*, J. Commut. Algebra **6** (2014), no. 2, 287–304, [arXiv:1009.2756](#).
11. Stephan Foldes and Russ Woodroffe, *Antichain cutsets of strongly connected posets*, Order **30** (2013), no. 2, 351–361, [arXiv:1109.5705](#).
10. Russ Woodroffe, *Chains of modular elements and shellability*, J. Combin. Theory Ser. A **119** (2012), no. 6, 1315–1327, [arXiv:1104.0936](#).
9. John Shareshian and Russ Woodroffe, *A new subgroup lattice characterization of finite solvable groups*, J. Algebra **351** (2012), no. 1, 448–458, [arXiv:1011.2503](#).
8. Russ Woodroffe, *Chordal and sequentially Cohen-Macaulay clutters*, Electron. J. Combin. **18** (2011), no. 1, Paper 208, 20 pages, [arXiv:0911.4697](#).
7. ———, *Erdős-Ko-Rado theorems for simplicial complexes*, J. Combin. Theory Ser. A **118** (2011), no. 4, 1218–1227, [arXiv:1001.0313](#).
6. ———, *Vertex decomposable graphs and obstructions to shellability*, Proc. Amer. Math. Soc. **137** (2009), no. 10, 3235–3246, [arXiv:0810.0311](#).
5. ———, *Cubical convex ear decompositions*, Electron. J. Combin. **16** (2009), no. 2, Research Paper 17, approx. 33 pp. (electronic), [arXiv:0709.2793](#).
4. ———, *An EL-labeling of the subgroup lattice*, Proc. Amer. Math. Soc. **136** (2008), no. 11, 3795–3801, [arXiv:0708.3539](#).
3. ———, *Shelling the coset poset*, J. Combin. Theory Ser. A **114** (2007), no. 4, 733–746, [arXiv:math/0306346](#).
2. Alexander Barvinok, Sándor P. Fekete, David S. Johnson, Arie Tamir, Gerhard J. Woeginger, and Russ Woodroffe, *The geometric maximum traveling salesman problem*, J. ACM **50** (2003), no. 5, 641–664 (electronic), [arXiv:cs/0204024](#).
1. Alexander Barvinok, David S. Johnson, Gerhard J. Woeginger, and Russ Woodroffe, *The maximum traveling salesman problem under polyhedral norms*, Integer programming and combinatorial optimization (Houston, TX, 1998), Lecture Notes in Comput. Sci., vol. 1412, Springer, Berlin, 1998, 195–201.

Other research products

- Russ Woodroffe, *Gap.app – a native Macintosh GUI for GAP*, Version 0.7 (2022).
(<https://cocoagap.sourceforge.io/>).
Version history: 0.7 – Oct 2022, 0.61 – Mar 2020, 0.6 – Nov 2018, 0.5 – May 2018,
0.22 – Sep 2009, 0.2 – Mar 2008, 0.1 – Sep 2007.
- The On-Line Encyclopedia of Integer Sequences (2015), [Sequence A258577](#).
Numbers n with greatest prime power divisor p^a , s.t. $\gcd\{\text{binomial}(n,k) : 1 \leq k \leq n-1, \text{binomial}(n,k) \text{ is not divisible by } p\} < 1$.

Research talks

- *Two problems on lattices of groups*: lecture on the occasion of inauguration to full professor at the University of Primorska. Koper, Slovenia (Mar 2024)
- *Strict Erdős-Ko-Rado theorems for simplicial complexes*: University of Kansas algebra seminar. Lawrence, KS (Sep 2023)
- *Nonunimodal forests*: Emléktábla workshop problem proposal. Vác, Hungary (Aug 2023)
- *Vertex-decomposable graphs and the INDEPENDENT SET problem*: 10th Slovenian Conference on Graph Theory. Kranjska Gora, Slovenia (Jun 2023)
- *Perfect matchings and Alexander duals*: Banff International Research Station. Banff, Canada (Apr 2023)
- *Topology and combinatorics of lattices on groups*: a series of 2 talks at the University of Ljubljana topology seminar. Ljubljana, Slovenia (Apr–May 2022)
- *Algebra and topology of lattices of subgroups*: Lahore University of Management Sciences seminar. Via Zoom to Lahore, Pakistan (Nov 2021)
- *Invariable generation of alternating groups by prime-power elements*:
 - University of Ljubljana seminar. Ljubljana, Slovenia (Oct 2021)
 - Institute for Research in Fundamental Sciences seminar. Isfahan, Iran (Jan 2019)
 - BSM 100/3 Reunion Conference. Budapest, Hungary (Jun 2018)
 - Groups, Graphs, and More. Koper, Slovenia (May 2018)
- *Shellings from relative shellings*: 8th European Congress of Mathematics minisymposium talk. Portorož, Slovenia (Jun 2021)
- *k-decomposable and shellable complexes*: Technical University of Munich seminar. Munich, Germany (Aug 2020)
- *The Erdős-Ko-Rado theorem, a theorem of algebraic geometry*
 - University of Ljubljana Discrete Math seminar. Ljubljana, Slovenia (Apr 2020)
 - University of Bielefeld Groups and Geometry seminar. Bielefeld, Germany (Jan 2020)
 - Washington University in St. Louis Combinatorics seminar. St. Louis, MO (Nov 2019)
- *Binomial divisibility out to 128 billion*: Friedrich-Alexander University seminar. Erlangen, Germany (May 2019)
- *Commutative algebra via simplicial combinatorics*: a series of 3 expository lectures of 90 min each in the workshop (winter school) attached to the the 15th Seminar on Commutative Algebra and Related Topics. Tehran, Iran (2019).
- *Arrangements and the independence polynomial*:
 - 15th Seminar on Commutative Algebra and Related Topics (hour-long plenary talk). Tehran, Iran (Jan 2019)
 - Washington University in St. Louis Combinatorics seminar. St. Louis, MO (Nov 2018)
 - University of Primorska seminar. Koper, Slovenia (May 2017)
 - Spring 2017 AMS Central Sectional Meeting. Bloomington, IN (Apr 2017)
- *The story of a figure*: Software Tools For Mathematics. Koper, Slovenia (Sep 2018)
- *GAP should move beyond the terminal*: International Congress on Mathematical Soft-

ware. Notre Dame, IN (Jul 2018)

- *Interactive investigation of lattices*: Non-commutative Structures 2018 Workshop. Portorož, Slovenia (May 2018)
- *Non-contractibility and non-acyclicity of coset lattices*: UNAM Morelia Topology seminar. Morelia, Mexico (Jan 2018)
- *The story of a computation; The story of a figure; Using make in unexpected ways* (3 invited short talks): Software Tools For Mathematics. Morelia, Mexico (Jan 2018)
- *Order congruence lattices have convex ear decompositions*: 2017 CMS Winter Meeting. Waterloo, Canada (Dec 2017)
- *Non-acyclicity of coset lattices and generation of finite groups*:
 - Fall 2017 AMS Central Sectional Meeting. Denton, TX (Sep 2017),
 - SIAM Conference on Applied Algebraic Geometry. Atlanta, GA (Aug 2017).
- *A broad class of shellable lattices*:
 - New Mexico State University colloquium. Las Cruces, NM (Feb 2017)
 - Algebraic Combinatorics and Group Actions. Herstmonceux, England (Jul 2016)
 - SUNY Binghamton Combinatorics seminar. Binghamton, NY (May 2016)
 - Spring 2016 AMS Southeastern Sectional Meeting. Athens, GA (Mar 2016)
 - University of Miami Combinatorics seminar. Miami, FL (Feb 2016)
- *Frankl's Conjecture for subgroup lattices*:
 - Special Section at 2017 Joint Mathematics Meetings. Atlanta, GA (Jan 2017)
 - University of Ljubljana Discrete Math seminar. Ljubljana, Slovenia (May 2016)
- *Comodernistic lattices: a lattice-theoretic analogue of solvable groups*: Groups in Florence. Florence, Italy (Jun 2016)
- *Order congruence lattices are shellable / A broad class of shellable lattices*: Special Section at 2016 Joint Mathematics Meetings. Seattle, WA (Jan 2016)
- *Lattice labelings and modular elements*: University of Primorska seminar. Koper, Slovenia (Dec 2015)
- *Unimodal f -vectors and h -vectors of trees*:
 - University of Ljubljana Discrete Math seminar. Ljubljana, Slovenia (Dec 2015)
 - University of Mississippi Combinatorics seminar. Oxford, MS (Oct 2015)
 - Fall 2015 AMS Central Sectional Meeting. Chicago, IL (Oct 2015)
- *Order congruence lattices are CL -shellable*: 8th Slovenian Conference on Graph Theory. Kranjska Gora, Slovenia (Jun 2015)
- *On an analogue of Kummer's Theorem for the number of equipartitions*: 2015 International Conference in Graph Theory (hour-long plenary talk). Koper, Slovenia (May 2015)
- *Divisibility questions for alternating groups and for binomial coefficients*: University of Padua Algebra seminar. Padua, Italy (May 2015)
- *Topology and combinatorics of subgroup and coset lattices*: University of Georgia Topology seminar. Athens, GA (Apr 2015)
- *Several divisibility questions from group theory and combinatorics*: a poster presented at the IMA Workshop on Geometric and Enumerative Combinatorics. Minneapolis, MN

(Nov 2014)

- *Coset lattices are noncontractible, even for groups with alternating factors*: Fall 2014 AMS Western Sectional Meeting. San Francisco, CA (Oct 2014)
- *Some topological combinatorics for combinatorial algebraists*: a series of 4 expository lectures in the 2014 Atlantic Association for Research in the Mathematical Sciences (AARMS) Summer School in Commutative Algebra at Dalhousie University (Aug 2014).
- *Noncontractibility of the coset lattice and fixed points of group actions*:
 - Dalhousie University colloquium. Halifax, Canada (Aug 2014)
 - University of Primorska seminar. Koper, Slovenia (Jun 2014)
- *Regularity: a homological measure of graph complexity*: International Conference on Graph Theory and Combinatorics. Rogla, Slovenia (May 2014)
- *Why coset lattices involving A_{15} are non-contractible*: Spring 2014 AMS Southeastern Sectional Meeting. Knoxville, TN (Mar 2014)
- *Inclusion-exclusion and the coset lattice*: Oklahoma State University Algebra seminar. Stillwater, OK (Mar 2014)
- *An absence of leaves in regularity*:
 - Fall 2013 AMS Eastern Sectional Meeting. Philadelphia, PA (Oct 2013)
 - 2013 CMS Summer Meeting. Halifax, Canada (Jun 2013)
- *Several lattices on groups*: Miskolc Discrete Mathematics Roundtable Workshop. Miskolc, Hungary (Jun 2013)
- *On inclusion-exclusion in the subgroup and coset lattice*: 26th Cumberland Conference on Combinatorics, Graph Theory, and Computing. Murfreesboro, TN (May 2013)
- *Homology cycles in the coset posets of certain finite groups*: Spring 2013 AMS Southeastern Sectional Meeting. Oxford, MS (Mar 2013)
- *Regularity of clutters with collages*: Fall 2012 AMS Southeastern Sectional Meeting. New Orleans, LA (Oct 2012)
- *Modular and maximal chains in the subgroup lattice of a finite group*: Conference on Universal Algebra and Lattice Theory. Szeged, Hungary (Jun 2012)
- *Noncontractibility of the coset lattice of a finite group*: Spring 2012 AMS Central Sectional Meeting. Lawrence, KS (Mar 2012)
- *Shellability and its obstructions*: St. Louis University colloquium. St. Louis, MO (Feb 2012)
- *Topology of subgroup lattices*: Mississippi State University colloquium. Starkville, MS (Feb 2012)
- *Lexicographic labelings of posets and subgroup lattices*: University of Miskolc colloquium. Miskolc, Hungary (Dec 2011)
- *Antichain cutsets of strongly connected posets*: Workshop on Algebraic Topology and Combinatorics. Buenos Aires, Argentina (Nov 2011)
- *Erdős-Ko-Rado theorems on simplicial complexes*:
 - Turán Memorial Conference. Budapest, Hungary (Aug 2011)

- University of Illinois Algebraic Combinatorics seminar, Urbana-Champaign, IL (Mar 2011)
- BSM Reunion Conference. Budapest, Hungary (Jun 2010)
- 23rd Cumberland Conference on Combinatorics, Graph Theory, and Computing. Oxford, MS (May 2010)
- Spring 2010 AMS Southeastern Sectional Meeting. Lexington, KY (Mar 2010)
- *Chains of modular elements and shellability:*
 - University of Bremen Combinatorics seminar. Bremen, Germany (Jul 2011)
 - Fall 2010 AMS Central Sectional Meeting. Notre Dame, IN (Nov 2010).
- *Polytopes in subgroup and coset lattices:* Rocky Mountain Mathematics Consortium Summer School on Polyhedral Combinatorics and Algebraic Combinatorics. Laramie, WY (Jun 2011)
- *Matchings, coverings, and Castelnuovo-Mumford regularity:*
 - 24th Cumberland Conference on Combinatorics, Graph Theory, and Computing. Louisville, KY (May 2011)
 - University of Kansas Algebra seminar. Lawrence, KS (May 2011)
 - Dalhousie University Commutative Algebra seminar. Halifax, Canada (Mar 2011)
 - Tulane University Algebra seminar. New Orleans, LA (Jan 2011)
 - 2010 CMS Winter Meeting. Vancouver, Canada (Dec 2010)
- *Minimax chains and topology of the subgroup lattice:*
 - University of Kansas Combinatorics seminar. Lawrence, KS (May 2011)
 - University of Idaho seminar. Moscow, ID (Apr 2011)
 - Dalhousie University colloquium. Halifax, Canada (Mar 2011)
 - Approaches to Group Theory Conference. Ithaca, NY (Oct 2010)
- *Chordal and k -decomposable clutters:*
 - University of Illinois Combinatorics seminar. Urbana-Champaign, IL (Mar 2011)
 - Fall 2010 AMS Eastern Sectional Meeting (45 min talk). Syracuse, NY (Oct 2010)
 - Cornell University Combinatorics seminar. Ithaca, NY (Nov 2009)
 - *also presented as a poster at IPAM Workshop on Combinatorial Geometry (Oct 2009)*
- *Vertex decomposable graphs:*
 - Fall 2009 AMS Eastern Sectional Meeting. University Park, PA (Oct 2009)
 - St. Louis University Combinatorics seminar. St. Louis, MO (Mar 2009).
- *Gap.app demonstration:* Groups and Computation V Conference. Columbus, OH (Mar 2008).
- *An EL -shelling of the subgroup lattice:*
 - Alfréd Rényi Institute of Mathematics Algebra seminar. Budapest, Hungary (Jun 2008)
 - St. Louis University Algebra seminar. St. Louis, MO (Apr 2008)
 - Bilkent University Algebra seminar. Ankara, Turkey (Apr 2008)
 - Summer School on Algebra and Combinatorics. Lisbon, Portugal (Jun 2007)
- *Groups, posets, and shellings:*
 - American University of Sharjah seminar. Sharjah, UAE (Apr 2006)
 - American University in Cairo seminar. Cairo, Egypt (Mar 2006)

- Qatar University seminar. Doha, Qatar (Mar 2006)
- BSM Reunion conference. Budapest, Hungary (Jun 2005)

Research advising (see <https://osebje.famnit.upr.si/~russ.woodrooffe/advising.html>)

PhD:

- Directed PhD thesis of **Andrés Santamaría Galvis** (Fall 2017 – Fall 2022).

Masters:

- Directed masters project of Lee Hathcock, *Relaxations of the weakly chordal condition in graphs* (Summer 2016 – Summer 2017).
- Directed masters project of Bonnie Sessions: *EL-labelings of colored graph posets and exponential structures* (Spring 2013).

Undergraduate:

- Directed undergraduate research project of Dorotea Redžepi: *Continuous lattices of partitions* (Fall 2022 – Spring 2023).
- Directed undergraduate research project of Todor Antić: *Cross-polytopal Alexander duality* (Spring 2022).
- Directed bachelor's thesis project of Besfort Shala: *The probabilistic zeta function of a finite lattice* (Fall 2020 – Spring 2021). Revised version appears with the same title in Rocky Mountain J. Math. **54** (2024), no. 5, 1511–1526, [arXiv:2112.13766](https://arxiv.org/abs/2112.13766).
- Directed bachelor's thesis project of Eva Silađi (Éva Szilágyi): *Partitionability of simplicial complexes* (Fall 2020 – Spring 2021).
- Directed undergraduate research project of Ethan Brockman: *Independence polynomials of claw-free graphs and trees* (Fall 2015).
- Directed undergraduate research project of Bailey Swinford: *Divisibility of binomial coefficients at $p = 2$* (Fall 2015).
- Directed undergraduate research project of Joshua Dean: *Homology using linear algebra* (Spring 2014).
- Directed honors thesis project of Yoni Marshall: *Ramsey theory: from finite to infinite* (Spring 2011).

Mathematical outreach (see <https://osebje.famnit.upr.si/~russ.woodrooffe/outreach.html>)

- Talk at summer camp “Matematično Raziskovalno Srečanje” (MaRS): *Computational techniques for binomial divisibility*, Javorniški Rovt, Slovenia (Aug 2023).
- Public talk in the “Izleti v matematično veselje” lecture series: *Prime divisibility of binomial coefficients*, University of Primorska (Mar 2022).
- Activities for high school students at summer camp “Matematika je kul”: *Nonplatonic polyhedra*, University of Primorska (Aug 2019).
- Math Club talk for undergraduates: *The probability of generating a group*, Rhodes College (Apr 2017), Mississippi State University (Jan 2017).

- Public talk at outreach event “The Talk: Promoting STEM In Youth”: *Prime divisibility of binomial coefficients*, Tupelo MS (Nov 2016).
- Math Club talk for undergraduates: *How to type Mathematics in LyX*, Mississippi State University (Sep 2016, Sep 2014), University of Primorska (May 2014).
- Math Club talk for undergraduates: *Small, large, and typical gaps between primes*, Mississippi State University (Sep 2015).
- Math Club talk for undergraduates: *A conjecture on divisibility of binomial coefficients*, University of Primorska (May 2014), Rhodes College (Jan 2014), Mississippi State University (Apr 2013).
- Math Circle activities for middle and high school students: *Nonplatonic polyhedra*, Ferguson Middle School (Sep 2011), Washington University in St. Louis (Sep 2011, Oct 2009).
- Math Circle activities for middle and high school students: *Graph theory*, Washington University in St. Louis (Feb 2011, Jan 2009).
- Math Club talk for undergraduates: *Vertex-edge-face numbers of polyhedra*, Washington University in St. Louis (Apr 2010).
- Math Circle for elementary school teachers: *Polyhedra*, Metamorphic Math Center, St. Louis (Mar 2009).
- Math Club talk for pre-medical students: *How big is infinity?*, Weill Cornell Medical College in Qatar (Dec 2007).
- Math Club talk for pre-medical students: *Subsets, counting, and polynomials*, Weill Cornell Medical College in Qatar (Nov 2006).
- Math Club talk for pre-medical students: *The Fibonacci numbers*, Weill Cornell Medical College in Qatar (Oct 2006).

Conference, section, and workshop organization

- Member of organizing committee for the **8th European Congress of Mathematics**, held Jun 2021 (rescheduled from 2020 due to COVID-19) in Portorož, Slovenia.
- Co-organized (with Ted Dobson, Klavdija Kutnar, Bernd Schroeder, Laura Sheppardson, and Vaidy Sivaraman) the “**7th Annual Mississippi Discrete Mathematics Workshop**”, held Oct 2019 at the University of Mississippi.
- Member of program committee for the 31st International Conference on Formal Power Series and Algebraic Combinatorics (**FPSAC 2019**), held Jul 2019 at the University of Ljubljana.
- Co-organized (with Ted Dobson, Klavdija Kutnar, Dragan Marušič, Bernd Schroeder, and Laura Sheppardson) the “**6th Annual Mississippi Discrete Mathematics Workshop**”, held Nov 2018 at the University of Mississippi.
- Co-organized (with Ted Dobson, Klavdija Kutnar, Dragan Marušič, and Laura Sheppardson) the “**5th Annual Mississippi Discrete Mathematics Workshop**”, held Nov 2017 at the University of Mississippi.
- Co-organized (with Ted Dobson, Klavdija Kutnar, Dragan Marušič, and Laura Sheppardson) the “**4th Annual Mississippi Discrete Mathematics Workshop**”, held Nov 2015 at the University of Mississippi.

- Co-organized (with Eric Gottlieb) the [Special Section on Topological Combinatorics](#) at the AMS Fall Southeastern Sectional Meeting, held Oct 2015 at the University of Memphis.
- Co-organized (with Ted Dobson, Klavdija Kutnar, Dragan Marušič, and Laura Sheppardson) the “[3rd Annual Mississippi Discrete Mathematics Workshop](#)”, held Nov 2014 at Mississippi State University.
- Co-organized (with Ted Dobson, Klavdija Kutnar, Dragan Marušič, and Laura Sheppardson) the “[2nd Annual Mississippi Discrete Mathematics Workshop](#)”, held Nov 2013 at Mississippi State University.
- Co-organized (with John Shareshian) the [Special Section on Topological Combinatorics](#) at the AMS Fall Central Sectional Meeting, held Oct 2013 at Washington University in St. Louis.
- Co-organized (with Ted Dobson) an “[Impromptu Combinatorics Workshop](#)”, held Nov 2012 at Mississippi State University.
- Webmaster of [homepage](#) for the conference “Approaches to Group Theory”, held Oct 2010 at Cornell University.

Other service related to mathematics

- Editor, *Ars Mathematica Contemporanea*, 2019 –.
- Member of Editorial Board, *The Art of Discrete and Applied Mathematics*, 2018 –.
- Organized Algebra/Combinatorics/Topology Seminar at Mississippi State University, Fall 2015, Spring 2017, sporadically in between.
- Served as Webmaster for departmental webpage www.math.msstate.edu at Mississippi State University; significantly redesigned news and seminars, Fall 2014 – Spring 2017.
- Co-organized [Mississippi State Math Club](#), Fall 2013 – Spring 2017.
- Organized Top Combo Fun Seminar at Mississippi State University, Fall 2012 – Spring 2015.
- Organized Combinatorics Seminar at Washington University in St. Louis, Fall 2009 – Spring 2012.
- Organized Math Club at Weill Cornell Medical College in Qatar, Fall 2006 and 2007.
- Contributed several patches to LyX mathematical word processor: question environment, improved cases environment, bug-fixes for AMS document classes.
- Math Reviews [reviewer](#).
- MathOverflow [contributor](#).
- Wikipedia editor. Among other activities: created article on supersolvable lattices; biographies of mathematicians Roger Alperin, Thomas Brylawski, Henry Crapo, James Donaldson, Jan Saxl, Hal Schenck, Michael Stillman.
- Member of professional organizations: American Mathematical Society, European Mathematical Society, Slovenian Discrete and Applied Mathematics Society.

Non-mathematical service

- Elected as departmental representative for College of Arts & Sciences Faculty Senate at Mississippi State University, served Fall 2015 – Spring 2017.
- Served as faculty mentor/liaison to a freshman residence hall as part of the Faculty Associates Program at Washington University in St. Louis, 2009 – 2010 academic year.

- Served as discussion leader for Freshman Reading Program at Weill Cornell Medical College in Qatar (Aug 2007) and Washington University in St. Louis (Aug 2009, Aug 2010).
- Served on Committee on Pre-medical Admissions at Weill Cornell Medical College in Qatar, 2006 – 2007 academic year.

Technical skills

- Experienced programmer, with knowledge in GAP, C, C++, Objective C, and various other languages and environments.
- Worked as programmer/computer consultant, 1993-1998.