

## **ADMINISTRATIVE EXPERIENCE**

### **Chair, Department of Mathematics & Statistics (DMS)**

University of Alaska Fairbanks, Fairbanks AK, July 2016 – July 2018; August 2019 – June 2021; July 2022 – present

Responsible for assigning and scheduling courses for undergraduate and graduate degrees and for the large number of math service courses; developing new curricula and revising programs; formal and ad hoc undergraduate and graduate advising; final admission decisions for graduate students; serving on the executive council for the College of Natural Science and Mathematics; developing formal workloads, in consultation with individual faculty members, for submission to the dean; providing ad hoc and formal advice across the university on mathematics-related curricular questions; facilitating interdepartmental coordination; promoting academic program quality, including preparing program assessments; addressing student and faculty concerns/complaints in accordance with university policy; mentoring faculty, including for promotion and tenure; recommending faculty for committee appointments, sabbatical leaves, and release/alternative assignments. Responsible for (but not formal supervisor of) 17-18 full-time faculty; 3 - 5 adjunct faculty; co-supervisor of 1 office manager and 15-20 student workers and TAs. Responsible for ~\$2.7 million dollar departmental budget.

### **Interim Dean, College of Natural Science and Mathematics**

(Departments of Atmospheric Sciences, Biology and Wildlife, Chemistry and Biochemistry, Geosciences, Mathematics and Statistics, Veterinary Medicine; School of Education)  
University of Alaska Fairbanks, Fairbanks AK, July 2018–July 2019.

Supervisor of more than 100 faculty members and 5 Dean's office staff members. Responsible for writing annual faculty and staff evaluations and writing comprehensive evaluations for pre-tenure, tenure, and promotion files; working with faculty on curricular development; developing College budget with College fiscal officer; developing final faculty workloads in consultation with department chairs and faculty members; approving curricular proposals, departmental schedules, grant proposals; providing input to the Provost on areas related to science and mathematics; serving on university-wide administrative committees; serving on faculty senate committees as an ex officio administrative member as assigned; addressing escalated student and faculty concerns/complaints in accordance with university policy; making strategic decisions about the direction of the College. Responsible for ~\$12.9 million College budget.

## **ACADEMIC EMPLOYMENT**

### **Professor, Department of Mathematics and Statistics**

University of Alaska Fairbanks, Fairbanks AK, May 2015 – present

### **Associate Professor, Department of Mathematics and Statistics**

University of Alaska Fairbanks, Fairbanks, AK, August 2009 – May 2015.

### **Associate Professor, Department of Mathematics and Computer Science**

Ursinus College, Collegeville, PA 2008 – 2009.

### **Assistant Professor, Department of Mathematics and Computer Science**

Ursinus College, Collegeville, PA 2002 – 2008.

### **Teaching Assistant, Department of Mathematics**

University of Washington, Seattle, WA 1997 – 2002.

## **EDUCATION**

Ph.D., Mathematics; University of Washington, Seattle, WA, 2002

Thesis: *Astral Configurations*; Branko Grünbaum, supervisor

M.S., Mathematics; University of Washington, Seattle, WA, 2001

B.A., Mathematics, Philosophy; Lewis & Clark College, Portland, OR, 1997

Illinois Mathematics and Science Academy, Aurora, IL, 1990-1993

### **PUBLICATIONS IN PROGRESS (STUDENT AUTHORS IN BOLD)<sup>1</sup>**

- Small graphs with obstacle number greater than one. Joint work with Glenn Chappell, Chris Hartman, Jill Faudree, Gordon Williams. In revision.
- Isomorphism classes of astral 4-configurations. Joint work with Jill Faudree, Tomáš Pisanski, Gordon Williams and Steve Wilson. In preparation.
- Rotationally symmetric snarks from voltage graphs. Joint work with Déborah Oliveros and Gordon Williams. In review.
- Semicubic cages and small graphs of even girth from voltage graphs. Joint work with **Flor Aguilar** and Gabriela Araujo. In preparation.
- A new polycyclic  $(21_4)$  configuration. Joint work with Gábor Gévay and Tomáš Pisanski. In preparation.

### **PUBLICATIONS (STUDENT AUTHORS IN BOLD)**

1. New bounds on the existence of  $(n_5)$  and  $(n_6)$  configurations: the Grünbaum Calculus revisited. Joint work with Gábor Gévay and Tomáš Pisanski. *Journal of Geometry*. Accepted, September 2022.
2. On Graphs with Proper Connection Number 2. *Theory and Applications of Graphs*. Joint work with Glenn Chappell, Jill Faudree, John Gimbel, Chris Hartman, and Gordon Williams. Volume 8, issue 2 (2021)
3. Connected  $(n_k)$  configurations exist for almost all  $n$ . Joint work with Gábor Gévay and Tomáš Pisanski. *The Art of Discrete and Applied Mathematics*. Vol 4 No 3 (2021) <https://doi.org/10.26493/2590-9770.1408.f90>
4. Chiral astral realizations of cyclic 3-configurations. Joint work with Phillip DeOrsey, Jill Faudree, Tomáš Pisanski, and Arjana Žitnik. *Discrete Comput Geom* 64, 542–565 (2020). <https://doi.org/10.1007/s00454-020-00203-1>
5. On the flag graphs of regular polyhedra: Hamiltonicity and Cayley index. Joint work with István Kovács and Gordon Williams. *Discrete Mathematics*. Volume 343, Issue 1. (2020) <https://doi.org/10.1016/j.disc.2019.111599>
6. Fully truncated simplices and their monodromy groups. Joint work with Barry Monson, Deborah Oliveros, Gordon Williams. *Advances in Geometry*. Volume 18, Issue 2, Pages 193–206, ISSN (Online) 1615-7168, ISSN (Print) 1615-715X, DOI: <https://doi.org/10.1515/advgeom-2017-0047>. (2018)
7. Operations on oriented maps. Joint work with Tomáš Pisanski and Gordon Williams. *Symmetry*. 9(11), (2017) 274; <https://doi.org/10.3390/sym9110274>
8. Graphs with obstacle number greater than one. Joint work with John Gimbel, Glenn Chappell, Chris Hartman, Jill Faudree, Gordon Williams. *Journal of Graph Theory Algorithms and Applications*. vol. 21, no. 6, pp. 1107–1119 (2017)
9. Using conics to construct geometric 3-configurations, part II: the generalized Steiner construction. *Journal of Geometry*. (2017) Volume 108, [Issue 3](#), pp 1055–1072.
10. Using conics to construct geometric 3-configurations, part I: symmetrically generalizing the Pappus configuration. *Journal of Geometry*. 108 (2017), no. 2, 591–609.

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<sup>1</sup> In mathematics, authors are listed alphabetically and the assumption is that all authors contributed substantially to the paper.

11. An infinite class of movable 5-configurations. Joint work with **Elliott Jacksch** and **Lander ver Hoef**. *Ars Mathematica Contemporanea*. 10 (2016), no. 2, 411–425.
12. Polycyclic movable 4-configurations are plentiful. Joint work with Jill R. Faudree and Tomaz Pisanski. *Discrete and Computational Geometry*. 55 (2016), no. 3, 688–714.
13. The monodromy group of a truncated simplex. Joint work with Barry Monson, Deborah Oliveros, and Gordon Williams. *Journal of Algebraic Combinatorics*. (2015).
14. Uniquely tree-saturated graphs. Joint work with Glenn Chappell, Jill R. Faudree, John Gimbel, Chris Hartman. *Graphs and Combinatorics*, (2015).
15. Sparse deletion construction of symmetric 4-configurations. Joint work with **William H. Mitchell**. *Ars Mathematica Contemporanea*. Vol 9, No 2 (2015)
16. The monodromy group of the  $n$ -pyramid. Joint work with Barry Monson, Mark Mixer, Deborah Oliveros, Gordon Williams. *Discrete Mathematics* 320 (2014) 55–63.
17. Geometric constructions for symmetric 6-configurations. In *Rigidity and Symmetry*, Robert Connolly, Asia Ivić Weiss, and Walter Whiteley, eds. Fields Institute Communications Book 70. Springer; (2014).
18. Systematic celestial configurations. Joint work with **Angela Berardinelli**. *Ars Mathematica Contemporanea*. Vol 7, No 2 (2014).
19. Geometric constructions for 3-configurations with non-trivial geometric symmetry. *The Electronic Journal of Combinatorics*. Vol 20, Issue 3. (2013).
20. Highly incident configurations with chiral symmetry. Joint work with Jill R. Faudree. *Discrete and Computational Geometry*, March (2013).
21. Constructing highly incident configurations. *Discrete and Computational Geometry*. (46), (2011), 447 – 470. Erratum to: Constructing highly incident configurations. *Discrete and Computational Geometry*. (46), (2011), 471.
22. Kaleidoscopic zonotopal rosettes. Joint work with Gordon Williams. *Symmetry: Culture and Science, special issue on tessellations*. (22) 1–2, (2011), 197–222.
23. A new construction for symmetric (4,6)-configurations. Joint work with **Nadine Burt**. *Ars Mathematica Contemporanea*. (3) 2, (2010).
24. Deletion constructions of symmetric 4-configurations, Part I. Joint work with Branko Grünbaum. *Contributions to Discrete Mathematics*. 5 (1), (2010).
25. Constructing  $(n_5)$  configurations with chiral symmetry. Joint work with **Laura Ng**. *The Electronic Journal of Combinatorics* (17) 1, (2010). #R2.
26. Geometric “floral” configurations. Joint work with Jürgen Bokowski, Branko Grünbaum and Tomaz Pisanski. *Canadian Mathematical Bulletin*. (52), (2009), 327–341.
27. Exploring Polyhedra and Discovering Euler’s Theorem. Joint work with Gordon Williams. Contributed article in *Resources for Teaching Discrete Mathematics*, MAA Notes #74, (2009).
28. Omittable lines. Joint work with Branko Grünbaum and Jon Lenchner. *Ars Mathematica Contemporanea*. (1) 2, 2008.
29. Astral  $(n_4)$  configurations of pseudolines. *Contributions to Discrete Mathematics*. (3) 2, 2008.
30. Linear astral  $(n_5)$  configurations with dihedral symmetry. Joint work with Jürgen Bokowski. *European Journal of Combinatorics*. (29) 8, 2008.
31. A new class of movable  $(n_4)$  configurations. *Ars Mathematica Contemporanea*. (1) 1, 2008.

32. Symmetric simplicial pseudoline arrangements. *The Electronic Journal of Combinatorics*. (15) 1, 2008. #R13.
33. Movable  $(n_4)$  configurations. *The Electronic Journal of Combinatorics*. (13) 2006, #R104.
34. Folding beauties. *The College Mathematics Journal*, May, 2006.
35. Some results on odd astral configurations. *The Electronic Journal of Combinatorics*. (13) 2006. #R27.
36. The cross-ratio is the ratio of cross-products! Joint work with **Bradley James Molnar** and Gordon Ian Williams. *Mathematics Magazine*, March, 2006.
37. Even astral configurations. *The Electronic Journal of Combinatorics*. (11) 2004. #R37.
38. A characterization of astral  $(n_4)$  configurations. *Discrete and Computational Geometry*. (26) 4, 2001.

### PRESENTATIONS AND CONFERENCES

1. Symmetries in Graphs, Maps and Polytopes 2022 (SIGMAP 2022). Fairbanks, AK, July 10 - 15, 2022. (Attendee and co-organizer.)
2. *Bounds on the existence of  $(n_5)$ ,  $(n_6)$ , and  $(n_k)$  configurations*. Invited talk for the American Mathematical Society Eastern Sectional Meeting, Special Session on Symmetries of Polytopes, Maps and Graphs. March 19, 2022. (20 minute invited talk. Zoom.)
3. *Strip Patterns (Frieze Patterns)*. Invited talk for the 2021 Panamerican Girls' Mathematical Olympiad. October 7, 2021. (Hour long talk. Zoom).
4. *Configurations of points and lines*. Algebraic Graph Theory International Webinar. March 18, 2021. (Hour long invited talk. Zoom)
5. *Connected geometric  $(n_k)$  configurations exist for all  $n$* . 8th European Congress of Mathematics, Minisymposium on Configurations Portorož, Slovenia, and online. June 23, 2021. (minisymposium keynote speaker, 40 minute invited talk. Zoom.)
6. *Eventually,  $(n_5)$  configurations exist for all  $n$  (and other facts about  $(n_5)$  configurations)*. 9th Slovenian International Conference on Graph Theory, Minisymposium on Configurations. Bled, Slovenia. June 23 – 28, 2019. (20 minute invited talk)
7. Symmetries of Graphs, Maps, and Polytopes. UNAM-Morelia. Morelia, Michoacán, Mexico. June 23 – 29, 2018. (Participant)
8. BIRS-CMO Workshop on Symmetries of Discrete Structures in Geometry. Banff International Research Station—Casa Matemática Oaxaca. Oaxaca, Oaxaca, Mexico, August 20 – August 25, 2017. (Invited workshop participant.)
9. *Obstacle numbers of graphs*. Special Session on Discrete Mathematics. Pacific Rim Mathematical Association 3rd Congress. Oaxaca, Oaxaca, Mexico. August 17, 2017. (30 minute invited talk.)
10. *Pseudo-Loupekin snarks with geometric symmetry*. International Workshop on Combinatorial and Computational Aspects of Optimization, Topology and Algebra. (ACCOTA 2016). Los Cabos, Mexico, November 28 – December 2, 2016. (30 minute invited talk)
11. *Configurations of Points and Lines*. Coloquio de Matemáticas Puras, Aplicadas e Historia. Universidad Autónoma de Querétaro. Querétaro, Mexico. 5 May 2016. (Hour-long keynote talk)
12. *Searching for snarks with symmetry—a work in progress*. Seminario Preguntón, UNAM—Juriquilla. Juriquilla, Querétaro, Mexico. April 26, 2016. (Hour-long seminar talk)
13. *Symmetric geometric configurations of points and lines*. XXXI Coloquio Víctor Neumann-Lara de Teoría de las Gráficas, Combinatoria y sus Aplicaciones. Guanajuato, Guanajuato, Mexico. 2 March 2016. (Hour-long conference talk)

14. *Symmetrically generalizing the Pappus Configuration*. Seminar za diskretno matematiko. December 7, 2015. University of Ljubljana. Ljubljana, Slovenia. (hour-long seminar talk)
15. *Geometric constructions for symmetric configurations*. Seminar za diskretno matematiko. October 19, 2015. University of Ljubljana. Ljubljana, Slovenia. (hour-long seminar talk)
16. *Symmetric Movable Configurations*. Geometry and Symmetry. Veszprém, Hungary, June 29 - July 3, 2015. (20 minute invited talk)
17. *Symmetric Geometric Embeddings of Cyclic Configurations: Preliminary Report*. 8th Slovenian Conference of Graph Theory, Minisymposium on Polytopes and Graphs. Kranjska Gora, Slovenia, June 21 - 27, 2015. (20-minute invited talk)
18. *Configurations of Points and Lines*. Seminar on Algebraic Combinatorics, Colorado State University, April 10, 2015. (Hour-long invited talk.)
19. BIRS Workshop on Discrete Geometry and Symmetry. Banff International Research Station. (Invited Attendee). February 8 - 13, 2015.
20. BIRS Combinatorial and Convex Geometry Fest. Banff International Research Station. (Invited Attendee). February 13 - 15, 2015.
21. Kaleidoscope: a conference in honor of Javier Bracho, observer of beautiful forms in Geometry, Topology and Combinatorics. (Attendee). Ixtapa, Mexico, May 12 - 16, 2014.
22. *Open questions on configurations of points and lines*. Seminario Preguntón, UNAM–Juriquilla, Querétaro, Mexico, March 18, 2014. (Hour-long seminar talk)
23. *Movable 4-configurations are plentiful*. Canadian Mathematical Society Summer Meeting, Special Session on Discrete and Combinatorial Geometry. Halifax, NS, June 4–7, 2013. (20 minute invited talk)
24. *Geometric constructions for symmetric geometric configurations*. (hour-long keynote talk). Workshop on Configurations, Darmstadt, Germany, February 15, 2013.
25. Workshop on Abstract Polytopes. (Invited Participant) Cuernavaca, Mexico. July 30 – August 5, 2012.
26. *Open questions on configurations of points and lines*. (hour-long keynote talk.) EuroGiga Midterm Conference. Prague, Czech Republic. July 9 – 13, 2012.
27. *A new construction for highly incident configurations*. (hour-long invited talk.) Workshop on Graphs, Maps and Polytopes. The Fields Institute, Toronto, ON. October 24 – 27, 2011.
28. Organizer, Minisymposium on Configurations. 7th Slovenian International Conference on Graph Theory. Bled, Slovenia. June 19 – 25, 2011
29. *Geometric constructions for  $(q,k)$ -configurations*. 7th Slovenian International Conference on Graph Theory, Minisymposium on Configurations. Bled, Slovenia. June 19 – 25, 2011. (20 minute invited talk)
30. *Symmetric geometric configurations*. The Mathematics of Klee & Grünbaum. Seattle, WA, July 28-30, 2010. (hour-long invited talk)
31. *Highly incident configurations (part 2)*. Canadian Mathematical Society Summer Meeting, Special Session on Discrete Geometry. Fredericton, NB, June 1–3, 2010. (20 minute invited talk)
32. *Highly incident configurations*. AMS Eastern Section Meeting, Special Session on Discrete Geometry and Combinatorics. Worcester, MA, April 27–28, 2009. (20 minute invited talk)
33. *Movable configurations*. 6th Slovenian International Conference on Graph Theory, Minisymposium on Geometric and Combinatorial Configurations. Bled, Slovenia. June 24 – 30, 2007. (20 minute invited talk)

34. *Astral Configurations: Some Open Questions*. SIAM Conference on Discrete Mathematics, Mini-symposium on Configurations. Victoria, BC. June 26 – 28, 2006. (20 minute invited talk)
35. *Symmetric Configurations*. Canadian Mathematical Society Summer 2006 Meetings, Special Session on Symmetry in Geometry. Calgary, AB, June 5 – 7, 2006. (20 minute invited talk)
36. *Odd Astral Configurations*. Canadian Mathematical Society Summer 2005 Meetings, Special Session on Discrete and Computational Geometry, Waterloo, ON, June 4 – 6, 2005. (20 minute invited talk)
37. *Even Astral Configurations*. The Coxeter Legacy: reflections and projections. The Fields Institute, Toronto, ON, May 11 – 16, 2004. (20 minute talk)
38. *Even Astral Configurations*. MAA/AMS Joint Meetings 2004, Phoenix, AZ, January 6 – 11, 2004. (20 minute talk)
39. *Web-based Calculus Placement*. MAA/AMS Joint Meetings 2004, Phoenix, AZ, January 6 – 11, 2004.
40. Panelist, MAA special presentation, *Oral presentations: Let's talk about it!* MAA/AMS Joint Meetings 2004, Phoenix, AZ, January 6 – 11, 2004
41. Panelist, Project NExT panel on *Online Assessment in Mathematics*, MAA MathFest 2003, Boulder, CO.
42. Colloquium Speaker, *Kollegseminar im Graduiertenkolleg* (Graduiertenkolleg Angewandte Algorithmische Mathematik), Technical University of Munich, January 9, 2003 (hour-long seminar talk)

#### GRANTS AWARDED

NSF 2022 Combinatorics Grant #2203776: Workshop on Symmetries in Graphs, Maps, and Polytopes 2022 (PI Gordon Williams, Co-PI: Leah Berman; \$25,000)

Slovenian Research Agency bilateral Slovenian-USA 2020-2021 collaboration grant (€1515/year for 2 years)

Fulbright Scholar (Alternate; unfunded) 2015-2016

Simons Foundation 2011 Collaboration Grant for Mathematicians. (\$5000/year for travel and collaboration, for 5 years.) No-cost extension to August 2017

Associate Partner (unfunded), EuroGIGA grant: Geometric representations and symmetries of graphs, maps and other discrete structures and applications in science (GReGAS). Grant funded in 2011 by European Science Foundation.

#### DISTINCT COURSES TAUGHT

**2009 - present (UAF):** Abstract Algebra (undergraduate), Calculus for Business and Economics, Calculus I, Calculus I asynchronous, Calculus II, College Algebra for Calculus, Discrete Mathematics, Geometry, Graph Theory (graduate), History and Philosophy of Mathematics, Introduction to Combinatorics, Introduction to Mathematical Proof, Linear Algebra, Precalculus, Topics in Geometry: Configurations (graduate), Topics in Mathematics: Configurations (undergraduate)

**2002 - 2008 (Ursinus College):** Calculus I, Calculus II, Combinatorics, Discrete Mathematics, Linear Algebra, Math for Liberal Arts, Math for Liberal Arts: Math and Art, Modern Geometry, The Common Intellectual Experience I (first-year humanities-based seminar)

**1997 - 2002 (University of Washington):** Business Algebra, Discovery Method Algebra, Geometry for High School Teachers

#### SUPERVISED STUDENT RESEARCH

**Spring 2018 – Spring 2019:** UAF Mathematics MS Degree, May 2019  
Lander Ver Hoef: *A class of highly symmetric Loupekine snarks*

**Spring 2013 – Spring 2014** UAF Undergraduate Honors Capstone Project  
Signe Johnson: *Highly incident configurations and reduced Levi graphs*

### **Spring-Fall 2011** UAF Undergraduate Honors Capstone Project

Samantha McNeith: *New symmetric pseudoline arrangements*

### **Summer 2009** Ursinus Summer Fellows Program (undergraduate)

Nadine Burr: *A new construction for symmetric (4,6)-configurations*

Angela Berardinelli: *Systematic 4-astal configurations*

### **Summer 2008** Ursinus Summer Fellows Program (undergraduate)

Jordan Mitchell: *Classification of celestial ( $n_4$ ) configurations*

Laura Ng: *Construction of symmetric ( $n_5$ ) configurations*

### **Fall 2003, Spring 2004** Ursinus College distinguished undergraduate honors research (interdisciplinary with the Classics department)

Kelly Northrup: *Aristarchus of Samos's Treatise on the Sizes and Distances of the Sun and Moon*

## **HONORS AND AWARDS**

- 2015 Recognition of Service, UAF Faculty Senate
- 2010–2011 Outstanding Teaching Award, Department of Mathematics & Statistics
- Eastern Pennsylvania and Delaware (EPaDel) MAA section at-large representative, 2007–2009
- 2002-2003 MAA/AMS Project NExT (New Experiences in Teaching) Fellow
- University of Washington Preparing Future Faculty Fellow, 2001-2002
- Northern Arizona University REU participant, Summer 1996; Steve Wilson, advisor.

## **SERVICE**

### **DMS Committees**

- Placement committee (2013-15; ex officio 2016- Fall 2018; Fall 2019 - Fall 2021)
- Calculus committee (2016-2017; ex officio 2017- Fall 2018; Fall 2019 - present)
- Curriculum committee (2012-15; 2016- Fall 2018)
- Curriculum preparation (Fall 2019 - present)
- Precalculus Working Group (2016-17)
- Math PhD Revitalization Committee (Fall 2013-Summer 2018)
- CNSM Executive Council (2016—2021)
- DMS Graduate Admissions Committee (2016 - Fall 2018)

### **UAF Committees**

- Retention Committee (Spring 2021 – present)
- UAF Faculty Senate (Fall 2020 – Spring 2021; Fall 2021 – Spring 2023 term)
- CNSM Executive Council (2016 – 2021, Fall 2022 – present)
- Dual Enrollment Task Force (Spring 2021 – Spring 2022)
- UAF Ad Hoc COVID Committee (Fall 2020 – Spring 2022)
- Academic Program Review Redesign Team (Spring 2021)
- Expedited Academic Management Review Committee (Spring 2021)
- North Star College at UAF Curriculum Committee (Fall 2019 - Spring 2021; Fall 2022 – present)
- Dean's Council, Provost's Council, Research Working Group, RPG (Summer 2018 – July 2019)
- Student Academic Development and Achievement Committee (Fall 2017 – Summer 2018)
- General Education Requirements & Core Committee (2017–18, **chair**), Core Review Committee (2014–15; **chair**)
- Baccalaureate Retention committee, Academic Support Subcommittee (Spring 2017)
- CNSM Curriculum Committee (2012–14; **chair** 2013-14)
- Curricular Review Committee, CNSM representative (2013-14; 2018-9 (administrative representative), 2022 – present (**chair**))
- Curricular Affairs Committee (Fall 2022–present)
- General Education Revitalization Committee (2012–Spring 2015, **chair** 2014–15)

### **UA System-wide committees**

- Common Calendar Task Force (Fall 2016 – Summer 2018, Fall 2019 – Spring 2020);
- Statewide General Education Task Force (2014-2015, Fall 2016 – Summer 2018);
- Mathematics Coordination Committee (Fall 2016 – Summer 2018; Fall 2019 – Spring 2021);

- Statewide Math Placement Committee (2017–18; ex officio)
- Joint Health Care Committee (2012-2015; Fall 2019—Spring 2021, Fall 2022—present);
- General Education Learning Objectives Committee I and II (2012—2014);

#### **UAF Search committees**

- UAF Centennial Post-doc search committee, round 2 & 3 (Fall 2018 – Spring 2019; Fall 2019 – Spring 2020)
- School of Education director (committee chair; Summer 2018)
- CNSM Interim Dean (Fall 2017)
- DMS Math Bridge Staff (2017)
- Instructor, DMS (committee chair; Summer 2017)
- Visiting Assistant Professor, DMS (Spring 2015)

#### **Professional Service: Ad Hoc Referee**

- Mathematics Magazine
- Springer Contributed Volume “Discrete Geometry and Symmetry”
- *Ars Mathematica Contemporanea*
- American Mathematical Monthly
- Contributions to Discrete Mathematics
- Electronic Journal of Combinatorics

#### **Public Service**

- Member, Logical Accuracy and Testing Board, Fairbanks North Star Borough Elections (Fall 2022)
- Board Member, Congregation Or Hatzafon (January 2022 – present)
  - Vice President (December 2022–present)
- Fairbanks North Star Borough Assembly Member (November 2018 – October 2021) [elected position in municipal government]
  - Finance Committee Chair (November 2019 – October 2021)
- Fairbanks North Star Borough School District Curriculum Advisory Committee (Spring 2017–Spring 2018)
- Science Potpourri: Mathematical Origami (Spring 2014, 2015, 2016, 2017, 2018)
- Elementary school modules on Polyhedra (2014, 2015, 2016, 2017, 2018)
- UAF Math Day: how to think like a mathematician (Spring 2017)
- COSMOS (Careers of Science and Math Opportunity Summit) (Spring 2017, Spring 2018)
- Candidate, Fairbanks North Star Borough Assembly (2017, 2018)
- United Academics AAUP/AFT – Local 4996 Representative Assembly member (2013–2015; 2021–present)
- Board Member, Enep’ut Children’s Center (2010–2011)

#### **PROFESSIONAL DEVELOPMENT**

- AMS 2022 Short Course, “3D Printing—Challenges and Applications.” Participant. January 3 – 4, 2022. (Zoom)
- UAF Academic Leadership Institute (2016—2017)

#### **EDITORIAL BOARDS**

- January 2014 – present: editorial board member, *Mathematics Magazine*
- September 2015 – July 2016: assistant production editor, *Ars Mathematica Contemporanea*

#### **CURRENT PROFESSIONAL SOCIETIES**

Mathematical Association of America, Association of Women in Mathematics, American Mathematical Society

*last revised January 2, 2023*