

JENNIFER J. QUINN

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Interdisciplinary Arts and Sciences

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EDUCATION

PhD, Mathematics, UNIVERSITY OF WISCONSIN–MADISON, May 1993.

Dissertation: Colorings and Cycle Packings in Graphs and Digraphs

PhD Advisor: Richard A. Brualdi

Minor: Computer Science

MS, Mathematics, UNIVERSITY OF ILLINOIS–CHICAGO, August 1987.

BA magna cum laude, Mathematics and Biology, WILLIAMS COLLEGE, Williamstown, Massachusetts, June 1985.

PROFESSIONAL EXPERIENCE

ADMINISTRATIVE

Interim Director, February 2015–present.

TEACHING & LEARNING CENTER, UNIVERSITY OF WASHINGTON, TACOMA. Collaboratively develop new mission statement. Oversee operations, human resources, budget, facilities, and equipment management. Develop metrics to assess current effectiveness and predict future needs. Serve as liaison to faculty, library professionals, advising, and student support departments on campus. Report to Vice Chancellor of Academic Affairs.

Associate Director, September 2009–August 2013.

INTERDISCIPLINARY ARTS AND SCIENCES, UNIVERSITY OF WASHINGTON, TACOMA. Schedule all IAS classes. Manage full- and part- time lecturers. Goal setting meetings with full professors. Create hiring plan. Shepherd new course proposals and curriculum changes including instituting new course prefixes, conversion of 7 concentrations to majors, course equivalences with other campuses, and adding distance/online learning. Serve as resource for student complaints and faculty concerns. Liaison with IAS Faculty governance. Lead process improvements in scheduling (leader) and hiring (participant). Report to Director of IAS.

Executive Director, October 2005–June 2007.

ASSOCIATION FOR WOMEN IN MATHEMATICS. Represent organization at national meetings. Write grants and reports to obtain (and maintain) external support for ongoing programs. Seek foundational support. Manage membership drive. Coordinate activities with Managing Director and Association Management Company. Write and distribute press releases. Shepherd new programs to promote women in mathematics. Manage volunteers.

Chair of Mathematics, July 2002–2005.

OCCIDENTAL COLLEGE. Responsible for curricular integrity of undergraduate mathematics program. Direct selection of permanent and temporary hires. Review faculty for promotion. Mentor new department members. Oversee departmental budget. Build consensus for departmental decisions. Solve problems. Report to Dean of Faculty.

ACADEMIC—PERMANENT

Full Professor, September 2007–present.

INTERDISCIPLINARY ARTS AND SCIENCES, UNIVERSITY OF WASHINGTON, TACOMA. Coordinated creation of undergraduate mathematics curriculum. Taught Calculus sequence, Matrix Algebra, Discrete Math I & II, Core: Introduction to Science.

Full Professor, April 2005–May 2007.

Associate Professor, April 1999–April 2005.

Assistant Professor, September 1993–April 1999.

DEPARTMENT OF MATHEMATICS, OCCIDENTAL COLLEGE. Taught courses in calculus, vector calculus, linear systems, discrete mathematics, combinatorics, graph theory, number theory, algebra, models of computation, mathematics as a liberal art, history of mathematics, junior seminar; developed and taught coordinated introduction to mechanics and calculus; organized senior colloquium; taught Mellon Summer Technology Workshop for faculty.

ACADEMIC—TEMPORARY

Instructor. Summer 2008, 2009.

SIMUW: Summer Institute in Mathematics at the University of Washington. Taught 2-week session on *Combinatorially Thinking* to 24 talented high school students.

Lecturer. Fall 2006.

PACIFIC LUTHERAN UNIVERSITY. Taught two sections of Abstract Algebra.

Visiting Associate Professor. Spring 2007.

UNIVERSITY OF PUGET SOUND. Taught Precalculus and Calculus.

Visiting Research Scholar. Fall 2005–2007.

UNIVERSITY OF PUGET SOUND.

RESEARCH EXPERIENCE

Visiting Member of the MATHEMATICAL SCIENCES RESEARCH INSTITUTE, Spring 1997, Berkeley, CA.

Visiting Member of the INSTITUTE FOR MATHEMATICS AND ITS APPLICATIONS during the special year in applied linear algebra, September 1991–June 1992, University of Minnesota–Minneapolis.

RESEARCH ASSISTANT for Richard A. Brualdi, Professor of Mathematics, University of Wisconsin–Madison, Summer 1990, Spring and Summer 1991.

HONORS AND AWARDS

2012 University of Washington Tacoma Outstanding Woman.

2007 Deborah and Franklin Tepper Haimo Awards for Distinguished College or University Teaching of Mathematics. One of three recipients awarded annually by the Mathematical Association of America to honor teachers who have been widely recognized as extraordinarily successful and whose teaching effectiveness has been shown to have had influence beyond their own institutions.

2006 Beckenbach Book Prize for *Proofs that Really Count: The Art of Combinatorial Proof*. Awarded by the Mathematical Association of America to recognize a distinguished, innovative, and truly outstanding book.

2005 Graham L. Sterling Award awarded by the Promotion and Tenure Committee of Occidental College to a faculty member “in recognition of strong teaching and service, and in particular, distinguished professional achievement.”

2004 Outstanding Academic Title, *Proofs that Really Count: The Art of Combinatorial Proof* awarded January 2005 by Choice, the principal review journal for academic libraries.

2003 Award of Appreciation, Berendo Middle School, in recognition of dedication and sacrifice on behalf of their students.

2001 Distinguished Teaching Award, MATHEMATICAL ASSOCIATION OF AMERICA—Southern California Section.

Finalist for DONALD R. LOFTSGORDON MEMORIAL AWARD FOR OUTSTANDING TEACHING, Occidental College, 1999.

Co-Principle Investigator for a NATIONAL SCIENCE FOUNDATION Course and Curriculum Development Grant, 1995. Awarded \$105,000 over two years to develop and pilot a coordinated introduction to mechanics and calculus course.

Department of Education Research Fellow, September 1991–August 1992. Administered by the Department of Mathematics, UNIVERSITY OF WISCONSIN–MADISON.

University of Wisconsin Mathematics Department **TA Mentor Award**, 1992.

University of Wisconsin Mathematics Department **Teaching Award**, 1990.

Phi Beta Kappa, 1985. President of Delta Chapter of California, 1997–2000.

Phi Kappa Phi, 1987.

Pi Mu Epsilon, 2004.

PROFESSIONAL BOARDS AND MEMBERSHIPS

Chair of Council on Publications for MATHEMATICS ASSOCIATION OF AMERICA, February 2015–January 2019. (Elected position, includes membership and responsibilities on the MAA Executive Council).

2nd Vice President for MATHEMATICS ASSOCIATION OF AMERICA, February 2012–January 2014.

Member of Advisory Board for MATH, SCIENCE, LEADERSHIP PROGRAM at UWT, January 2009–2011.

Editorial Board Member of *Math Horizons*, January 2014–December 2018.

Co-Editor of *Math Horizons*, January 2004–December 2008.

Editor-Elect of *Math Horizons*, January 2003–December 2003.

Content Advisor and Steering Committee for *Mathematics Illuminated*, a production of OREGON PUBLIC BROADCASTING funded by the Annenberg Corporation. July 2006–February 2008.

Member of the COMMITTEE ON PUBLICATIONS of the Mathematics Association of America, January 2004–2009.

Member on the Editorial Board of the SPECTRUM SERIES of the Mathematics Association of America, January 1997–January 2003.

Associate Editor of *Mathematics Magazine*, published by the Mathematics Association of America, January 2001–January 2006.

Councillor for PHI BETA KAPPA Alpha Alumni Association of California, 1999–2005. Chair of International Scholarship Committee 1999–2001. Vice President 2001–2004. *Key Notes* Newsletter Co-editor 2003–2004.

Newsletter Editor for Southern California Mathematics Association of America, June 1999–July 2001.

Elected **Program Chair** of the Southern California Section of the Mathematical Association of America, 1998–1999.

Elected **Program Vice-Chair** of the Southern California Section of the Mathematical Association of America, 1997–1998.

Member of Mathematical Association of America, 1990–.

Member of Association for Women in Mathematics, 1991–.

Member of Fibonacci Association, 2008–.

Fellow of Institute of Combinatorics and its Applications, 2000–. Associate Fellow 1994–1999.

RESEARCH PUBLICATIONS

* indicates an undergraduate co-author

1. Incidence and strong edge colorings of graphs, joint with R.A. Brualdi, *Discrete Mathematics* **122** (1993) 51–58.
2. More on structure–ranks of matrices, joint with R.A. Brualdi, *Linear Algebra and its Applications* **183** (1993) 193–199.
3. Cycle packings in cubic graphs, *Congressus Numeratium* **97** (1993) 115–164.
4. Cycle packings in graphs and digraphs, *Discrete Mathematics* **149** (1996) 325–328.
5. Semimetal-semiconductor transition in InAs–GaSb heterostructures, joint with J.J. Quinn, *Surface Science* **361/362** (1996) 930–932.
6. Strong chromatic index in subset graphs, joint with A.T. Benjamin, *Journal of Graph Theory* **24.3** (1997) 267–273.
7. Strong chromatic index in subset graphs, joint with E.L. Sundberg*, *Ars Combinatoria* **49** (1998) 155–159.
8. Unevening the odds of “Even-up”, joint with A.T. Benjamin, *Mathematics Magazine* **72.1** (1999) 149–150.
9. Playing with chromatic kings, joint with E.J. Libicki*, *UMAP Journal* **20.2** (1999) 117–126.
10. Recounting Fibonacci and Lucas identities, joint with A.T. Benjamin, *College Math. Journal* **30.5** (1999), 359–366.
11. Fibonacci and Lucas identities through colored tilings, joint with A.T. Benjamin, *Utilitas Mathematica* **56** (1999), 137–142.
12. Counting on continued fractions, joint with A.T. Benjamin and F.E. Su, *Mathematics Magazine* **73.2** (2000) 98–104.
13. Paths to a multinomial inequality, joint with A.T. Benjamin, *Ars Combinatoria* **55** (2000) 117–122.
14. Phased tilings and generalized Fibonacci identities, joint with A.T. Benjamin and F.E. Su, *Fibonacci Quarterly* **38.3** (2000) 282–288.
15. Random approaches to Fibonacci identities, joint with A.T. Benjamin, G.M. Levin, and K. Mahlborg*, *American Math. Monthly*, **107.6** (2000), 511–516.
16. Fermion-Boson transformation in fractional quantum hall systems, joint with J.J. Quinn, A.Wojs, and A.T. Benjamin, *Physica E* **9** (2001) 701–708.

17. Composite fermions and integer partitions, joint with A.T. Benjamin, J.J. Quinn, and A. Wojs, *J. Combinatorial Theory A* **95.2** (2001) 390–397.
18. Transformation of statistics in fractional quantum hall systems, joint with J.J. Quinn, A. Wojs, and A.T. Benjamin, *Physica E* **11** (2001), 182–185.
19. A Stirling encounter with harmonic numbers, joint with A.T. Benjamin and G. Preston*, *Mathematics Magazine* **75.2** (2002) 95–103.
20. The Fibonacci numbers—exposed more discretely, joint with A.T. Benjamin, *Mathematics Magazine*, **76.3** (2003) 182–192, reprinted in *Biscuits of Number Theory*, (Arthur T. Benjamin and Ezra Brown, eds.), Mathematical Association of America, Washington, D.C. (2009).
21. Adiabatic addition of the Chern-Simons flux, pair correlations, and particle statistics in two-dimensional electron systems, joint with John J. Quinn, *Physical Review B* **68** (2003) 153310.
22. Composite fermions in quantum Hall systems, joint with John J. Quinn, Arkadiusz Wojs, Kyung-Soo Yi, in *Proceedings from the International School of Physics “Enrico Fermi”; Course CLVII Varenna*, (G.F. Giuliani and G. Vignale, eds.) IOS Press, Amsterdam (2004).
23. Fibinomial identities, joint with A.T. Benjamin and J.A. Rouse*, in *Applications of Fibonacci Numbers, Volume 10*, (F.T. Howard, ed.), Kluwer Academic Publishers (2004) 19–24.
24. Generalizing the Quinn-Wojs Theorem on distinct multiplets of composite fermions, joint with J.T. Tobiska*, *Discrete Math.*, **300** (2005) 152–162.
25. Pseudopotentials, correlations, and hierarchy states in quantum hall systems: When the composite Fermion picture works and why, joint with John J. Quinn, *Solid State Communications* **140.2** (2006) 53–60.
26. Fibonacci determinants—A combinatorial approach, joint with A.T. Benjamin and N.T. Cameron, *Fibonacci Quarterly* **45.1** (2007) 39–55.
27. Paint it black—A combinatorial yawp, joint with A.T. Benjamin, J.A. Sellars, and M.A. Shattuck, *Mathematics Magazine* **81.1** (2008) 45–50.
28. An alternate approach to alternating sums: a method to DIE for, joint with A.T. Benjamin, *College Math. Journal* **39.3** (2008) 191–202.
29. Visualizing Vandermonde’s determinant through nonintersecting lattice paths, *Journal of Statistical Planning and Inference* **140.8** (2010) 2346–2350.
30. Catalan determinants—A combinatorial approach, joint with A.T. Benjamin, N.T. Cameron, and C.R. Yerger*, *Congressus Numerantium*, Proceedings of the Twelfth Conference on Fibonacci Numbers and their Application, (William Webb, ed.), Vol. 200 (2010), 169–177.
31. The Combinatorialization of Linear Recurrences, joint with A.T. Benjamin and H. Dirks, *Electronic Journal of Combinatorics* **18.2** (2011), #P12, 18 pages.

TEACHING AND OTHER PUBLICATIONS

1. Some applications of elementary linear algebra in combinatorics, joint with R.A. Brualdi, *College Mathematics Journal*, Vol. 24 No. 1 (1993) 10–19, reprinted in *Resources for Teaching Linear Algebra*, (David Carlson, Charles R. Johnson, David C. Lay, A. Duane Porter, Ann E. Watkins, William Watkins, eds.), Mathematical Association of America, Washington, D.C. (1997).
2. An integrated mechanics and calculus course for weakly prepared students, joint with L.A. Fathe and M. McDonald, *Journal of College Science Teaching*, Vol. XXVII No. 2 (1998) 121–125.

3. The mathematical web, joint with A.T. Benjamin, *Math Horizons*, February (2001) 27–29.
4. Proofs that really count: The magic of Fibonacci numbers, joint with A.T. Benjamin, in *Mathematical Adventures for Students and Amateurs*, (David F. Hayes and Tatiana Shubin, eds.), Mathematical Association of America, Washington, D.C. (2004), 83–94.
5. Delving deeper: revisiting Fibonacci and related sequences, joint with A.T. Benjamin, *Math Teacher*, Vol. 99, Issue 5 (2006) 357.
6. Summing cubes by counting rectangles, joint with A.T. Benjamin, C. Wurtz*, *College Math Journal* **37.5** (2006) 387–389.
7. Organizational Profile: Association for Women in Mathematics, *Math Horizons*, September (2007) 20–21.
8. Book Review of *Combinatorics the Rota Way* (authors J.P.S. Kung, G.-C. Rota, and C. H. Yan), *American Math. Monthly*, **June/July** (2012), 527-529.
9. Epic Math Battles: Counting vs. Matching, *Math Horizons*, February (2015), 5–9.
10. Yueh-Gin Gung and Dr. Charles Y. Hu Award for 2015 to W. James Lewis for Distinguished Service to Mathematics, *American Math. Monthly*, **122.3** (2015), to appear.

BOOK

Proofs that Really Count: The Art of Combinatorial Proof, joint with A.T. Benjamin, DOLCIANI SERIES OF MATHEMATICAL ASSOCIATION OF AMERICA, Washington, D.C., 2003.

SELECTED PROFESSIONAL ACTIVITIES

INTERNATIONAL AND NATIONAL MEETINGS

MAA Invited Plenary Speaker. AMS-MAA JOINT MATHEMATICS MEETING, Boston, January 2012. *Mathematics to Die For: A Battle Between Counting and Matching*. In addition, organizer for invited paper session *Clever Counting or Beautiful Bijection?*.

Invited Speaker. 40 YEARS & COUNTING: AWM'S CELEBRATION OF WOMEN IN MATHEMATICS, Brown University, September 2011. Combinatorics and Graph Session, *The Combinatorialization of Linear Recurrences*.

Invited Speaker. SACNAS NATIONAL CONFERENCE: SCIENCE, TECHNOLOGY, & DIVERSITY FOR A SUSTAINABLE FUTURE, October, 2010. Scientific Symposium: Games, Puzzles, Patterns!, *Playing with Patterns: Focus on Fibonacci*.

Invited Speaker. MATHFEST, Pittsburgh, PA, August 2010. MAA Undergraduate Student Activity, *Connecting Digraphs and Determinants*. Special Session on Visualizing Combinatorics through Tilings, *Linear Recurrences Involve Weighted Tilings*.

Keynote Speaker. Project NExT (New Experiences in Teaching) at MathFest, San Jose, CA, August 2007. *Teaching is a Practical Art*.

Haimo Presentation. AMS-MAA Joint Mathematics Meeting, New Orleans, January 2007. *My Practice of Mathematics*.

Plenary Speaker. Thirty-Seventh Southeastern International Conference on Combinatorics, Graph Theory, and Computing. Florida Atlantic University, March 2006. *Proofs that Really Count Redux and Synchronicity: Alternating Sums, Determinants, Continued Fractions & More.*

Minicourse Presenter. *Combinatorially Thinking.* MathFest, Portland, August 2009. AMS-MAA Joint Mathematics Meeting, New Orleans, January 2007. MathFest, Knoxville, August 2006. MathFest, Portland, OR, August 2009.

Invited Speaker. Special Session on Combinatorics, MATHFEST, Providence, RI, August 2004. *Excluding the Principle of Inclusion-Exclusion.*

Plenary Speaker. Mathfest, Boulder, CO., August 2003. *Proofs that Really Count.*

Presentation. *The Number Years: a Mathematical Game Show* created in collaboration with Eric J. Libicki and Arthur T. Benjamin. AMS-MAA JOINT MATHEMATICS MEETING, Washington, D.C. January 2000 plus many other public performances including the Spring Meeting of the NY Metropolitan Section of the MAA, May 2004, Family Math Night at Rockdale Elementary School, Los Angeles, CA, April 2005, and Central Washington University, October 2005.

Invited Panelist and Mentor. Woodrow Wilson National Fellowship Foundation Career Enhancement Fall Retreat, Princeton, NJ, *Essentials to surviving the tenure decision*, October 2009.

Invited Panelist. MAA MathFest, Portland August 2009. *AWM: Family Matters*, Project NExT: *Reflecting on Our Teaching*, MAA: *Mathematics Illuminated.*

Invited Panelist and Mentor. Nebraska Conference for Undergraduate Women in Mathematics, *What is Research?*, *Balancing Work and Life*, *Careers in Mathematics*, February 2008.

NAMED LECTURES

Anderson Distinguished Lecture. Louisiana/Mississippi Section Meeting of the MAA, February 2015. *Mathematics to Die For: A Battle Between Counting and Matching.*

Michael E. Moody Lecture. Harvey Mudd College, October 2013. *Mathematics to Die For: A Battle Between Counting and Matching.*

Kitchen Lecture. Kalamazoo College, May 2009. *Fibonacci Fascination and Determinants Via Determined Ants.*

Bullitt Lecture. University of Louisville, March 2009. *Fibonacci Fascination.*

Richard W. Sampson Lecturer. Bates College, November 2006. *Fabulous Fibonacci Numbers and Synchronicity: Alternating Sums, Determinants, Continued Fractions & More.*

Martha Davenport Heard Lecture. Wellesley College, October 2006. *Determinants Via Determined Ants.*

Kieval Distinguished Lecturer. Humboldt State University, November 2004. *Synchronicity: Alternating Sums, Exclusion, and Determinants* and *The Fabulous Fibonacci Numbers.*

PLENARY SPEAKER AT REGIONAL MEETINGS

Spring Meeting of the Pacific Northwest Section of the Mathematical Association of America, University of Montana, June 2014. Minicourse on *Combinatorially Thinking: Connecting Digraphs and Determinants*.

Spring Meeting of the Southwest Section of the Mathematical Association of America and AzMATYC, Paradise Valley Community College, April 2014. *Mathematics to Die For: A Battle Between Counting and Matching*.

Spring Meeting of the Missouri Section of the Mathematical Association of America, St. Louis University, March 2014. *Mathematics to Die For: A Battle Between Counting and Matching*.

Spring Meeting of the Nebraska-Southeastern South Dakota Section of the Mathematical Association of America, Nebraska Wesleyan College, March 2014. *Proofs that Really Count, Fibonacci's Flower Garden*, and facilitated a governance discussion with section leadership.

Fall Meeting of the Northeast Section of the Mathematical Association of America, Wheaton College, Norton, MA, November 2013. *Mathematics to Die For: A Battle Between Counting and Matching* plus Section NExT Session *Balancing Work/Life*.

Fall Meeting of the Iowa Section of the Mathematical Association of America, Wartburg College, Waverly, IA, October 2013. *Mathematics to Die For: A Battle Between Counting and Matching* and *Fibonacci's Flower Garden*.

Fall Meeting of the Southern California-Nevada Section of the Mathematical Association of America, California State University Dominguez Hills, October 2013. *The Combinatorialization of Linear Recurrences*.

Spring Meeting of the Seaway Section of the Mathematical Association of America, SUNY Fredonia, NY, April 2013. *Mathematics to Die For: A Battle Between Counting and Matching*.

Spring Meeting of the New Jersey Section of the Mathematical Association of America, Felician College, in Lodi, NJ, April 2013. *Mathematics to Die For: A Battle Between Counting and Matching*. Workshop facilitator *Combinatorially Thinking*. Discussion leader *Flipping out over Mathematics*.

Spring Meeting of the Intermountain Section of the Mathematical Association of America, Brigham Young University-Idaho in Rexburg, ID, March 2013. *Mathematics to Die For: A Battle Between Counting and Matching*. Banquet talk *Fibonacci's Flower Garden*.

Spring Meeting of the Florida Section of the Mathematical Association of American, University of Tampa, February 2013. *Mathematics to Die For: A Battle Between Counting and Matching*. Panel discussant *A Nation at Risk Thirty Years Later*.

Fall Meeting of the Eastern Pennsylvania/Delaware Section of the Mathematical Association of Millersville University, October 2012. *Mathematics to Die For: A Battle Between Counting and Matching*.

Spring Meeting of the Ohio Section of the Mathematical Association of America, Youngstown, OH, March 2011. *The Combinatorialization of Linear Recurrences*. Project NExT Workshop Leader *The Practice of Teaching*.

Center for Undergraduate Research in Mathematics, Spring Research Conference. Brigham Young University. March 2011. *Mathematics to Die For: A Battle Between Counting and Matching*.

Texas Undergraduate Mathematics Conference. Sam Houston State University, November 2009. *Mathematics to DIE for: the Battle Between Counting and Matching*

Meeting of the Michigan Section of the Mathematical Association of America, Mt. Pleasant, MI, May 2009. *Mathematics to DIE for: the Battle Between Counting and Matching*.

UW MathDay. March 2009. *Mathematics to DIE for: the Battle Between Counting and Matching*. (1250+ high school students from the Seattle area participating in a one day math event at UWS.)

Washington Community College Student Mathematics Conference. Green River Community College, February 2009.

Julia Robinson Mathematics Festival. May 2008. *The Fabulous Fibonacci Numbers*. (500 middle school and high school students from the Bay area participating in a one day math event on the Google campus.)

Rose-Hulman Undergraduate Mathematics Conference, Terre Haute, IN. March 2007. *Determinants via Determined Ants*.

Pacific Coast Undergraduate Math Conference, Los Angeles, CA. March 2006. *Proofs that Really Count*.

Combinatorial Potlatch. Seattle University. November 2005. *Determined Ants via Determined Ants*.

Pi Mu Epsilon Conference, College of St. Benedict/University of St. Johns, St. Joseph, MN. April 2005. *Proofs that Really Count* and *Determinants through Determined Ants*.

Meeting of the Pacific Northwest Section of the Mathematical Association of America, Tacoma, April 2005. *Proofs that Really Count* and minicourse *Combinatorially Thinking*.

Michigan Undergraduate Mathematics Conference, Central Michigan University, October 2004. *Proving What Counts by Counting to Prove*.

Spring Meeting of the NY Metropolitan Section of the Mathematical Association of America, Garden City, NY, May 2004. *Proofs that Really Count: The Art of Combinatorial Proof*.

Bay Area Mathematical Association. April 2004. *Proofs that Really Count: Exploring Patterns in Pascal's Triangle*.

Fall Meeting of the Southern California Section of the Mathematical Association of America, Los Angeles, CA, October 2001. *Proofs that Really Count*.

INVITED SEMINAR SPEAKER AND CONTRIBUTED TALKS.

Distinguished Lectures in Mathematics. Winona State University, October 2014. *Fibonacci's Flower Garden*, *The Combinatorialization of Linear Recurrences*, and *Digraphs and Determinants*.

Mathematics to DIE for: the Battle Between Counting and Matching. Allegheny College, 2014. University of Tennessee Knoxville, March 2010. West Chester University, March 2010. Pacific Lutheran University, October 2008.

Digraphs and Determinants. Infinite Horizons Lecture at Kennesaw State University, February 2012. Class of '60 Speaker, Williams College, September 2011. Smith College, September 2011.

Linear Recurrences Involve Weighted Tilings. Lewis & Clark College, September 2010.

Monthly Math Hour at the University of Washington. May 2010. *Fibonacci Fascination: Playing with Patterns.*

A Lattice Path Gallery for Fibonacci, Catalan, & Vandermonde determinants. 6th International Conference on Lattice Path Combinatorics and Applications, Johnson City, TN, June 2007.

Determinants via Determined Ants. University of Puget Sound, March 2008. DigiPen Institute, December 2006. Lewis & Clark College, February 2006. Pacific Lutheran University, February 2006. California State University, Chico, February 2005. Grand Valley State University, February 2005.

Fabulous Fibonacci Numbers. Central Washington University, October 2005. Pasadena Senior Center Science Series, March 2001.

Alternating Sums, Exclusion, and Determinants. Central Michigan University, February 2005. University of Portland, January 2005.

Integer Partitions and Composite Fermions. University of Montana, March 2004. University of Wisconsin—Eau Claire, February 2004. James Madison University, February 2004. Michigan State University, January 2004. California State University Northridge, October 2003. Santa Clara University, June 2003. Portland State University, February 2003. St. Olaf College, February 2003.

Proofs that Really Count. University of Mary Washington, February 2005. Mercer University, January 2005. Youngstown State University, March 2004. DePauw University, February 2004. Michigan State University, January 2004. Armstrong Atlantic University, November 2003. St. Olaf College, February 2003. CalPoly San Luis Obispo Mathematics Colloquium Series, November 2002.

The Politics of Exclusion: Doing Away with the Principle of Inclusion-Exclusion. Willamette University, February 2003. California State University Fresno, November 2002. CalPoly Pomona Mathematics Colloquium Series, October 2002.

Science Teaching and Research at a Liberal Arts College. Fast Track to the Professoriate Summer Program, University of California, Irvine, July 2001.

Fermion Multiplets and Integer Partitions, CalTech Combinatorics Seminar, November 2000.

Directed Cycles and Zero Eigenvalues. University of Minnesota, May 1997.

Life Lessons: What I've learned on my way to here for Women's Herstory Month, Mayfield High School, March 1996.

SERVICE

UWT 2014-2015 (SO FAR):

Promotion Committees. Chair of Sushil Oswal's tenure and promotion to Associate Professor committee. Reluctant chair of Peter Selkin's tenure and promotion to Associate Professor committee.

Hiring Committees. Chair of search for Quantitative Skills Coordinator. Member of interview Committee for Applied Mathematics.

UWT 2013-2014:

I enjoyed a sabbatical Autumn 2013 and research leaves Winter 2014 and Spring 2014. As such, my service was limited.

Summer Task Forces. Lean Scheduling (Chair). Lean Hiring (member).

Hiring Committee. Chair of the Search for the Director of Writing and Associate/Full Professor in IAS.

UWT 2012-2013:

Promotion Committees. Member of Robert Friedman's promotion to Full Professor committee. Member of Julia Aguirre's tenure and promotion to Associate Professor committee. Third year review committee for Julie Eaton.

Interdisciplinarity Task Force.

Faculty Assembly's Online Learning Fellows.

Strategic Enrollment Management Task Force.

IAS Space Working Group.

Informal Mentor to Julie Eaton.

UWT 2011-2012:

Coordinator for Mathematics Minor, Independent Pattern of Study.

Interdisciplinarity Task Force.

UWT 2010-2011:

Coordinator for Mathematics Minor, Independent Pattern of Study. Co-coordinator for Global Studies.

Promotion Committee. Member on Cynthia Duncan's promotion committee.

Hiring Committees. Chair of the Director Search for the Institute of Technology. Member and chair-when-required of the Applied Math Search Committee. Member of the IAS Program Administrator Search committee. Member of the IAS Fiscal Specialist II Search Committee. Member of interview committee for tenure-track position in ITS.

Concentration to Major Conversion.

Faculty Mentor to Jenny Sheng and Ankur Teradesi.

Liaison/Facilitator between the Institute of Technology and Environmental Science/Math for procurement of syllabi and samples of student work needed for ABET accreditation visit.

UWT 2009-2010:

Coordinator for Mathematics Minor.

Tenure and Promotion Task Force. Chaired task force responsible for recently approved IAS guidelines for tenure and promotion.

Promotion Committees. Member on John Banks' promotion committee.

Faculty Mentor to Ruth Vanderpool, Ryan Card, and Jenny Sheng.

UWT 2008-2009:

Author for proposed Mathematics Minor.

IAS Strategic Planning Committee.

Tenure and Promotion Task Force. Chaired task force charged with revisiting and rewriting IAS guidelines for tenure and promotion.

Alternate Teaching Assessment Task Force. Served as active liaison between the T&P Task Force and this one.

Foundations of Excellence. UWT Philosophy Dimension.

Promotion Committees. Chaired committee that recommended Linda Dawson for promotion to senior lecturer. Member on Ankur Teredesai's promotion and tenure committee.

Faculty Mentor to Linda Dawson, Paul Allen, Tracie Haynie, and Jenny Sheng.

Hiring Committee for math consultant in TLC.

UWT 2007-2008:

Applied Math Search Committee 2008-09. Successfully chaired search that received over 300 applications.

SERVICE TO THE PROFESSION:

NSF Panelist. Reviewed proposals for Graduate Fellowship in Mathematics applications. February 2009.

MAA. Chair of Council on Publications 2015-2019. 2nd Vice President, 2012-2014. Chair of Search Committee for editor of *Mathematics Magazine*, 2012-13. Search Committee for Executive Director, 2010-11. Search Committee for editor of the *American Mathematics Monthly*, 2010. Chair Ad Hoc Program Committee to select plenary speakers for the Joint Mathematics Meeting (JMM), January 2011. Member AMS-MAA Joint Program Committee for JMM 2011. Member, Coordinating Council on Meetings 2009-11. Ad Hoc Program Committees to select plenary speakers for the Joint Mathematics Meetings January 2009 and MathFest August 2009. Distinguished Teaching Award Committee for the Pacific Northwest Section. 2008-2011. MAA/AWM Etta Falconer Award Committee 2009-2016 (Chair 2011-12, 2013-14). Gung and Hu Award Committee (member 2013, chair 2014-16). Editorial Board of *Math Horizons* 2014-2018. Chair of Governance Task Force (2014-). Organizer and host institution for PNW Section Spring Meeting 2015.

AWM. 2010 Evaluation of ONR grant: Workshop for Women Graduate Students and Postdocs (2007-2009). Committee on Committees 2009-2012 (Chair 2011-2012). Workshop mentor for January 2011 and January 2009 Workshop for Women Graduate Students and PostDocs in Mathematics.

Simons Foundation Review Advisory Panel. 2012.