

Judi J McDonald

Professor Judi McDonal is a complete academic, passionate about research, education, and shared governance. Her research focuses on predicting properties based on patterns in linear algebraic structures. She is a co-author of an introductory linear algebra textbook who enthusiastically educates, mentors, and learns from students at all levels - freshman through PhD. She has been active in shared governance by chairing the Faculty Affairs Committee and serving as chair-elect, chair and past chair of the WSU Faculty Senate, and now as an associate dean of the Graduate School.

EDUCATION

- Ph.D. - 1993
Mathematics, University of Wisconsin, Madison, Wisconsin
Specialization: Linear Algebra Research supervisor: Hans Schneider
Major: Algebra Minors: Analysis, Business Administration
- M.A. - 1991
Mathematics, University of Wisconsin, Madison, WI
- B.Sc. - 1988
Honours Mathematics, University of Alberta, Edmonton, Alberta
- International Baccalaureate – 1984
Armand Hammer United World College, Montezuma, New Mexico

EMPLOYMENT

- Washington State University
Associate Dean, Graduate School March 2019 – present
- Washington State University
Chair Elect, Chair, Past Chair of the Faculty Senate Aug 2016 – Aug 2019
- Department of Mathematics, Washington State University
Professor Aug 2009 – present
Associate Professor (tenured 2004) Aug 2001 – Aug 2009
- Department of Mathematics and Statistics, University of Regina
Associate Professor July 1998 – June 2002
Assistant Department Head May 1996 – June 1999
Assistant Professor July 1993 – June 1998
- Department of Mathematics, University of Wisconsin - Madison
Teaching and Research Assistant Sept 1988 – May 1993
- Department of Mathematics, University of Alberta
Math Lab Instructor, Remedial Math Instructor, Tutor Jan 1985 – May 1988
- Department of Economics, University of Alberta,
Research Assistant for Dr. Michael B. Percy May 1987 – Aug 1987
Jan 1988 – Aug 1988
- Department of Mathematics, Simon Fraser University
NSERC Summer Bursary Research Assistant May 1986 – Aug 1986

TEXTBOOK

Judi McDonald is a co-author of the top selling introductory linear algebra textbook worldwide and created the interactive electronic version where figures and examples come alive.

- David C. Lay, Steven R. Lay, and Judi J McDonald, *Linear Algebra and its Applications, Fifth Edition*.
- David C. Lay, Steven R. Lay, and Judi J McDonald, *Linear Algebra and its Applications, Fifth Edition – Interactive Electronic Version*.
- Judith J McDonald, *Instructor’s Solutions Manual for Linear Algebra and its Applications, Fifth Edition*.
- David C. Lay and Judith J McDonald, *Study Guide for Linear Algebra and its Applications, Fifth Edition*.
- David C. Lay, Judith J McDonald, and Thomas Polaski, *Instructor’s Solutions Manual for Linear Algebra and its Applications, Fourth Edition*.
- David C. Lay and Judith J McDonald, *Study Guide for Linear Algebra and its Applications, Fourth Edition*.
- Contributor to *Linear Algebra and its Applications, Fourth Edition*, by David C. Lay

REFEREED JOURNAL PUBLICATIONS

Dr McDonald’s research focuses on properties of linear algebraic systems and matrices that can be determined from patterns in the observed structures.

- Glassett & McDonald (2019). Spectrally arbitrary patterns over rings with unity. Accepted by *Linear Algebra and Its Applications*.
- McDonald & Melvin (2017). Spectrally arbitrary zero–nonzero patterns and field extensions. [*Linear Algebra and Its Applications*, Vol. 519, 146-155](#).
- McDonald & Paparella (2016). Matrix roots of imprimitive irreducible nonnegative matrices. [*Linear Algebra and Its Applications*, Vol. 498, 244–261](#).
- McDonald & Paparella (2016). Jordan chains of h -cyclic matrices. [*Linear Algebra and Its Applications*, Vol. 498, 145-159](#).
- McDonald, Paparella & Tsatsomeros (2014). Matrix Roots of Eventually Positive Matrices. [*Linear Algebra and Its Applications*, 456,122-137](#).
- Bodine & McDonald (2012). Spectrally Arbitrary Zero-Nonzero Patterns over the Finite Fields. *Linear & Multilinear Algebra*, 3(60), 285-299.
- DeAlba, Grout, Kim, Kirkland, McDonald & Yielding (2012). Minimum rank of powers of trees. [*Electronic Journal of Linear Algebra*, 23, 151-163](#).
- McDonald & Yielding (2012). Complex spectrally arbitrary zero-nonzero patterns. *Linear & Multilinear Algebra*. 1(60), 11-26.

- Bodine, Deaett, McDonald, Olesky & van den Driessche (2012). Sign Patterns that Require or Allow Particular Refined Inertias. [*Linear Algebra and Its Applications*, Vol. 437, Issue 9, 2228-2242.](#)
- Cavers, Cioaba, Fallat, Gregory, Haemers, Kirkland, McDonald & Tsatsomeros (2012). Skew-adjacency matrices of graphs. [*Linear Algebra and Its Applications*, Vol. 436, Issue 12, 4512-4529.](#)
- Jeon, McDonald & Stuart (2011). The minimum upper bound on the first ambiguous power of an irreducible ray pattern. [*Linear Algebra and Its Applications*, Vol. 435, Issue 5, 1147-1156.](#)
- Eubanks & McDonald (2009). On a generalization of Soules matrices. *SIAM. J. Matrix Anal. & Appl.*, 31, 1227-1234.
- McDonald & Morris (2008). Level characteristics corresponding to peripheral eigenvalues of a nonnegative matrix. [*Linear Algebra and Its Applications*, 429\(7\), Pages 1719-1729.](#)
- McDonald & Stuart (2008). Spectrally arbitrary ray patterns. [*Linear Algebra and Its Applications*, Vol. 429, Issue 4, 727-734.](#)
- DeAlba, Hentzel, Hogben, McDonald, Mikkelsen, Pryporova, Shader & Vander Meulen (2007). Spectrally arbitrary patterns: reducibility and the $2n$ conjecture. [*Linear Algebra and Its Applications*, Vol. 423, Issue 2-3, 262-276.](#)
- Corpuz & McDonald (2007). Spectrally arbitrary zero-nonzero patterns of order 4. [*Linear and Multilinear Algebra*, Vol. 55, No. 3, 249-274.](#)
- Kim, McDonald, Olesky & van den Driessche (2007). Inertias of zero-nonzero patterns. *Linear and Multilinear Algebra*, Vol. 55, No. 3, 229-238.
- Li & McDonald (2006). Inverses of M-type matrices created with irreducible eventually nonnegative matrices. [*Linear Algebra and Its Applications*, Vol. 419, Issue 2-3, 668-674.](#)
- Edwards, McDonald & Tsatsomeros (2005). On Matrices with common invariant cones with applications to neural and gene networks. Special Issue on Mathematical Biology, [*Linear Algebra and Its Applications*, 398, 37-67.](#)
- Britz, McDonald, Olesky & van den Driessche (2004). Minimal spectrally arbitrary sign patterns. *SIAM J. Matrix Anal. Appl.*, 26, no. 1, 257-271.
- Carnochan Naqvi & McDonald (2004). Eventually nonnegative matrices are similar to semi-nonnegative matrices. [*Linear Algebra and Its Applications*, 381, 245-258.](#)
- Loewy & McDonald (2004). The symmetric nonnegative inverse eigenvalue problem for 5×5 matrices. The Positivity Issue of [*Linear Algebra and Its Applications*, 393, 275-298.](#)
- McDonald, Psarrakos & Tsatsomeros (2004). Almost skew-symmetric matrices. *Rocky Mountain Journal of Mathematics*, 34, no. 1, 269-288.
- McDonald (2003). The peripheral spectrum of a nonnegative matrix. [*Linear Algebra and Its Applications*, 363: 217-235.](#)
- McDonald, Olesky, Tsatsomeros & van den Driessche (2003). On the spectra of striped sign patterns. *Linear and Multilinear Algebra*, Vol. 51, no. 1, 39-48.
- Zaslavsky & McDonald (2003). A characterization of Jordan canonical forms which are similar to eventually nonnegative matrices with the properties of nonnegative matrices. [*Linear Algebra and Its Applications*, 372, 253-285.](#)
- Carnochan Naqvi & McDonald (2002). The combinatorial structure of eventually nonnegative matrices. [*Electronic Journal of Linear Algebra*, 9, 255-269.](#)

- Knudsen & McDonald (2001). A note on the convexity of the realizable set of eigenvalues for nonnegative symmetric matrices. [*Electronic Journal of Linear Algebra*, 8, 110-114.](#)
- J.J. McDonald and M. Neumann (2000). The Soules approach to the inverse eigenvalue problem for nonnegative symmetric matrices of order $n \leq 5$. *Contemporary Mathematics*, Vol 259, pp. 387-390.
- Lee, McDonald, Shader, and Tsatsomeros (2000). Extremal properties of ray-nonsingular matrices. *Discrete Mathematics*, 216, 221-233.
- McDonald, Nabben, Neumann, Schneider & Tsatsomeros (1998). Inverse tridiagonal Z-matrices. *Linear and Multilinear Algebra*, Vol. 45, no. 1, 75-97.
- Krupnik & McDonald (1998). Hereditary properties of matrices. *Linear and Multilinear Algebra*, Vol. 45, no. 1, 1-17.
- McDonald, Olesky, Schneider, Tsatsomeros & van den Driessche (1998). Z-Pencils. [*Electronic Journal of Linear Algebra*, Vol 4, 32-38.](#)
- J.J. McDonald and H. Schneider (1998). Block LU factorizations of M-matrices. *Numerische Mathematik*, 80, 109-130.
- McDonald, Olesky, Tsatsomeros & van den Driessche (1997). Ray patterns of matrices and nonsingularity. [*Linear Algebra and Its Applications*, 267, 359-373.](#)
- Kirkland, McDonald & Tsatsomeros (1996). Sign patterns that require positive eigenvectors. *Linear and Multilinear Algebra*, Vol. 41, no. 3, 199-210.
- McDonald, Neumann, Schneider & Tsatsomeros (1996). Inverses of unipathic M-matrices. *SIAM Journal on Matrix Analysis and Application*, 17(4), 1035-1036.
- McDonald, Neumann, Schneider & Tsatsomeros (1995). Inverse M-Matrix inequalities and generalized ultrametric matrices. [*Linear Algebra and Its Applications*, Vol. 220, 321-341.](#)
- McDonald (1994). A product index theorem with applications to splittings of M-matrices. [*Linear Algebra and Its Applications*, Vol 197-198, 511-530.](#)
- McDonald, Neumann & Schneider (1993). Resolvents of minus M-matrices and splittings of M-matrices. [*Linear Algebra and Its Applications*, Vol 195, 17-34.](#)
- McDonald (1993). Partly zero eigenvectors and matrices which satisfy $Au = b$. *Linear and Multilinear Algebra*, 33, 163-170.
- Hazel, McDonald & Thomason (1987). Counting interval orderings. *Order* 4, 269-272 (1987).

OTHER PUBLICATIONS

- [Pamphlet](#) on Mathematical Careers for the Canadian Mathematical Society.
- [Poster and website](#) on Mathematical Careers for the Canadian Mathematical Society.
- Judith J. McDonald and J. Harley Weston, Friezing at Washington State University, *Mathematics Notes from Washington State University*, (2003).
- Chris Fisher, Allen Herman, Denis Hanson, Judith McDonald and Harley Weston, *Math 101 – Introductory Finite Mathematics 1*, an in house published textbook at the University of Regina (2001).
- Judith J. McDonald and J. Harley Weston. University of Regina Website. *CMS Notes*, Vol. 33, No. 5, (2001).

- Karen Arnason, Judith J. McDonald, Mhairi (Vi) Maeers and J. Harley Weston. Interweaving Mathematics and Indigenous Cultures. *Proceedings of the International Conference on New Ideas in Mathematical Education*, (2001).

GRANTS and AWARDS

- College of Arts and Sciences Excellence in Institutional Service Award, 2019.
- Team Mentoring Program received Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring, Spring 2018.
- WSU Martin Luther King Group Faculty Award for Teen Mentoring Program participation, January, 2015.
- Thomas Lutz College of Arts and Sciences Teaching Award, 2013.
- American Institute of Mathematics (AIM), **fully funded conference** on nonnegative matrix theory and generalizations, 2008.
- Recognized by the Women and Leadership Alliance at WSU as an outstanding mentor.
- NSF, Foundations in mathematical biology through interdisciplinary research, training, and curriculum development, Co-PI, \$905,000.
- Imperial Oil Grant to develop outreach resources in mathematics with Harley Weston.
- NSF, Interdisciplinary Training for Undergraduates in Biological and Mathematical Sciences, participating non-PI, \$99,703.
- Canadian Mathematical Society Endowment Grant, co-recipient, 2005, \$3,000.
- WSU Internal Research Grant, co-recipient, 2003, ¼ time teaching relief.
- Canadian Mathematical Society Endowment Grant, co-recipient, 2002 – 2004, \$5000 per year.
- WSU Mini-grant to develop an honors course in linear algebra, 2003, \$3000.
- NSERC Research Grant, 1998 – 2001, \$11,550 per year.
- NSERC Research Grant, 1994 – 1997, \$11,000 per year.
- NSERC Equipment Grant, co-recipient, 2001 - 2002, \$46,000.
- NSERC Equipment Grant, co-recipient, 1996 – 1997, \$14,410.
- University of Regina Inspiring Teacher Award (Fall 2000).
- University of Regina Inspiring Teacher Award (Fall 1999).
- University of Regina, Transdisciplinary Project, co-recipient, 2000 – 2001, \$2500.
- Merit Award, 2000.

PROFESSIONAL ACTIVITIES

Judi is passionate about shared governance, have taken on leadership roles in the Faculty Senate and served on numerous committees from the department level to the Board of Regents. When she sees things that need improving, she investigates the situation further, proposes changes, and listens to feedback on those changes before proceeding further with implementing change.

- Chair Elect, Chair, Past Chair – WSU Faculty Senate (2016-2019)
- Faculty Representative to the Board of Regents (2018-2019)

- Member of the NSF funded Linear Algebra Curriculum Study Group (2018-present)
- Policy Working Group (2018 - present)
- Educational Policy Working Group (2018 – 2019)
- Tracks and Titles Working Group (2016 - 2018)
- Institutional Effectiveness Council (2018 – present)
- Activity Insight Committee (2017 - present)
- Data Committee (2017 - present)
- AAAC (2017-2019).
- EFA Outreach and the Faculty Manual Task Force (2017-present).
- Honorary Degree Committee (August 16, 2017 - present).
- Affordability Task Force (August 16, 2017 - present).
- Chair – Committee on Committeess (2016-2017).
- Chair of the Math and Stats Faculty Affairs Committee (2014-present).
- Health Sciences Curriculum Committee member (2016-2018).
- Chair of the Faculty Affairs Committee for WSU (2014-2016).
- Task Force on Non-Tenure-Track Faculty Issues (2016-2018).
- Provost Leadership Academy graduate (Spring 2016).
- Liason to the Provost, Association for Faculty Women (2015-2016).
- Chair of the Travel Grants Committee for the Association of Women in Mathematics (2012).
- Associate Editor of *Linear Algebra and its Applications* (January 2006-2009).
- Special Editor of *Electronic Journal of Linear Algebra* devoted to the AIM conference on nonnegative matrices and generalizations.
- Board Member, International Linear Algebra Society (2008-2011).
- Special Editor, Issue of *Linear Algebra and its Applications* dedicated to Pauline van den Driessche.
- Special Editor, Positivity Issue of *Linear Algebra and its Applications*.
- Special Editor, Oberwolfach Issue of *Linear Algebra and its Applications*.
- Chair of the Canadian Mathematical Society Women in Mathematics Committee (2004-2005).
- Board Member the Canadian Mathematical Society (2000-2003).
- Education Committee Member of the Canadian Mathematical Society (2003).
- Member of the Organizing Committee for the International Linear Algebra Society Meeting (2002).
- Nominating Committee Member of the International Linear Algebra Society (1999).
- Member of the Society of Industrial and Applied Mathematics.
- Member of the Association for Women in Mathematics.
- Member of the International Linear Algebra Society.

STUDENT AND POSTDOCTORAL SUPERVISION (WASHINGTON STATE UNIVERSITY)

Dr McDonald has an active graduate program, welcoming women and men from a variety of backgrounds and cultures into her research area.

- Current Graduate Students:
 - o Faizah Alanazi

- o Mashael Albaidani
- o Fatimah Alzahrani
- o Aisha Basha
- o Jillian Glasset
- o Enzo Wendler
- Former Graduate Students:
 - o Cassandra Seubert (M.S. Fall 2017)
 - o Amy Streifel (Ph.D. Summer 2016)
 - o Fozia Arishi (M.S. Spring 2016)
 - o Tim Melvin (Ph.D. Fall 2013)
 - o Pietro Paparella (Ph.D. Summer 2013)
 - o Nicholas Crabb (M.S. Summer 2013)
 - o Amy Streifel (M.S. Summer 2013)
 - o Clinton Bradford (M.S. Spring 2013)
 - o Elizabeth Bodine (Ph.D. Summer 2010)
 - o Sherod Eubanks (Ph.D. Fall 2009)
 - o Amy Yielding (Ph.D. Spring 2009)
 - o DeAnne Morris (Ph.D. 2008)
 - o Jong Sam Jeon (Ph.D. 2007)
 - o Elizabeth Bodine (M.S. 2007)
 - o Amy Yielding (M.S. 2006)
 - o DeAnne Lamkin (Morris) (M.S. 2005)
 - o Hien Le (M.S. 2005)
 - o Evan Yates (M.S. 2004)
 - o Jenifer Breckon (M.S. 2004)
 - o Luisette Corpuz (M.S. 2004)
- Research supervisor of undergraduate Julissa Valenciano (2016-2018).
- Spring supervisor of undergraduate student Spenor Payton (2012).
- Spring, summer and fall supervisor of undergraduate student David Koslicki (2006).
- Summer and fall co-supervisor of undergraduate students Chris Gast and Tiffany Pecor (2004).
- Summer supervisor of undergraduate students Chris Gast and Alexandra Fitts (2003).

(UNIVERSITY OF REGINA)

- Summer co-supervision of undergraduate students Jeremy Hinks and Jamie Hubbard (summer 2001).
- M. Sc. co-supervisor of Tricia Leis.
- M. Sc. supervisor of Sarah Carnochan Naqvi (defended 2001): Properties of Eventually Nonnegative Matrices.
- External member of Ph.D. committee for Kathy Nolan (Education, defended 2001).
- External examiner for Viva Voci of S. Pati, Ph.D., Indian Statistical Institute (January 2000).
- Summer supervisor of Cindy Knudsen (summer 1999).

- University external examiner for M.Sc. thesis defense (Computer Science) for Bishan Li (1999).
- Member of Ph.D. committee for Suquin Ao (defended 1997).
- Member of Ph.D. committee for Bishan Li (defended 1997).
- Summer supervisor for Sarah Carnochan Naqvi (summer 1996).
- Co-supervisor of Postdoctoral Fellow Mark Krupnik (1994 – 1995).

CONFERENCES & WORKSHOPS

- Western Canadian Linear Algebra Society Meeting. **Local co-organizer.** Pullman, Washington (May 26-27, 2018).
- PAC-12 Academic Leadership Coalition. Participant. Seattle, Washington (February 9-11, 2018).
- International Linear Algebra Society Meeting. **Invited mini-symposium speaker.** Ames, Iowa (July 24-28, 2017).
- Banff International Research Station. Invited participant in the Special Western Canada Linear Algebra Meeting. Banff, Alberta (July 7-9, 2017).
- PAC-12 Academic Leadership Coalition. Participant. Salt Lake City, Utah (March 3-5, 2017).
- PAC-12 Academic Leadership Coalition. Participant. Seattle, Washington (October 28-30, 2016).
- Provost's Leadership Academy, Pullman, Washington (Spring 2016).
- Tidal Leadership Workshop. Pullman, Washington (October 2, 2015).
- COACH Workshop, ADVANCE, WSU. Moscow, Idaho (October 30, 2015).
- MAA Working Group on Linear Algebra. Washington, D.C. (February 28 - March 2, 2014).
- International Linear Algebra Society. **Invited mini-symposium speaker (4 talks).** Providence, Rhode Island (July 3-7, 2013).
- SIAM. **Invited mini-symposium speaker.** Minneapolis, Minnesota (July 9-13, 2012).
- Banff International Research Station. Participant in the Workshop on Theoretical and Applied Aspects of Nonnegative Matrix Theory. Banff, Alberta (July 27-30, 2012).
- Canadian Mathematical Society. **Invited mini-symposium speaker.** University of Alberta, Edmonton, Alberta (June 3-5, 2011)
- CBMS Regional Conference on the Mutually Beneficial Relationship of Matrices and Graphs. **Invited participant.** Iowa State University, Ames, Iowa (July 12-16, 2010).
- Banff International Research Station Western Canadian Linear Algebra Conference. Contributed paper. Banff, Alberta (May 7-9, 2010).
- American Mathematics Society sectional meetings. **Invited mini-symposium speaker.** Macalester College, St. Paul, Minnesota (April 10-11, 2010).
- Banff International Research Station Conference on Theory and Applications of Matrices Described by Patterns. **Invited participant.** Banff, Alberta, (**ad mini-symposium speaker, contributed paper session chair, mentor for the Association for Women in Mathematics.** Washington D.C. (January 5-8, 2009).
- American Institute of Mathematics Conference on Nonnegative Matrices and Generalizations. **Organizer.** Palo Alto, California (December 2008).
- International Linear Algebra Society Meeting. **Mini-symposium organizer and speaker.** Cancun, Mexico (June 16-20, 2008).

- Western Canadian Linear Algebra Meeting. Participant. Winnipeg, Manitoba (May 30-31, 2008).
- Haifa Matrix Theory Conference. **Invited speaker.** Haifa, Israel (April 16-19, 2007).
- American Institute of Mathematics, Spectra of families of matrices described by graphs, digraphs, and sign patterns. **Invited participant.** Palo Alto, California (October 23-27, 2006).
- Hamilton Institute, Theory of nonnegative matrices and applications to biology, computer science, communications networks, stability theory and related fields. **Invited speaker.** Maynooth, Ireland (July 9-12, 2006).
- Western Canadian Linear Algebra Meeting. Contributed paper. Victoria, B.C. (June 23-24, 2006).
- Calgary City Teachers' Convention Association. **Invited presentation** on spatial reasoning with Harley Weston. Calgary, Alberta (February 2006).
- Canadian Mathematical Society. Chair of Women in Math Committee, organizer of a panel addressing issues of mentoring graduate students and new faculty. Victoria, B.C. (December 2005).
- American Mathematical Society Sectional Meeting. **Invited mini-symposium speaker.** Lincoln, Nebraska (October 2005).
- Connecting Women in Mathematics across Canada II. **Panel member** and **co-organizer.** Banff International Research Station (BIRS), Banff, Alberta (July 2005).
- International Linear Algebra Society. Contributed paper. Regina, Saskatchewan (June 2005).
- Canadian Mathematical Society. Chair of Women in Math Committee. Montreal, Quebec (December 2004).
- Canadian Mathematical Society. Chair of Women in Math Committee. Halifax, Nova Scotia (June 2004).
- Selected to participate in a "Women in Mathematics Taking a Leadership Role Workshop" put on by the Association of Women in Mathematics in the Spring of 2004.
- Canadian Mathematical Society. Chair-elect of Women in Math Committee. Vancouver, B.C. (December 2003).
- Connecting Women in Mathematics across Canada. **Panel member** and **co-organizer.** Edmonton, Alberta (June 2003).
- Canadian Mathematical Society. Board Member, Chair-elect of the Women in Math Committee, member of Education Committee. Edmonton, Alberta (June 2003).
- SIAM Conference on Linear Algebra. ILAS **sponsored plenary speaker.** Williamsburg, Virginia (July 2003).
- Canadian Mathematical Society. Board Member. Ottawa, Ontario (December, 2002).
- Greater Edmonton Teachers' Convention Association. **Invited presentation.** Edmonton, Alberta (2002).
- Pacific Northwest Numerical Analysis Seminar. Participant. Victoria, B.C. (September 2002).
- II International Congress on Ethnomathematics. Poster presentation. Ouro Preto, Brazil (August 2002).
- International Linear Algebra Society. **Co-organizer.** Auburn, Alabama (June 2002).
- American Mathematical Society. **Invited mini-symposium speaker.** Atlanta, Georgia (March 2002).
- Canadian Mathematical Society. Board Member. Toronto, Ontario (December 2001).

- The International Conference on New Ideas in Mathematics Education. Contributed paper. Palm Colve, Australia (August 2001).
- International Linear Algebra Society. Contributed paper. Haifa, Israel (July 2001).
- Canadian Mathematical Society. Board Member. **Matrix Analysis Session Organizer.** Saskatoon, Saskatchewan (June 2001).
- Canadian Mathematics Education Study Group. Participant. Edmonton, Alberta (May 2001).
- South East Regional Teachers' Convention. **Session organizer** and speaker. Regina, Saskatchewan (2000).
- Nichtnegative Matrizen, M-Matrizen und deren Verallgemeinerungen, Mathematisches Forschungsinstitut. **Invited speaker and participant.** Oberwolfach, Germany (November 2000).
- SIAM Meeting. Contributed paper. Raleigh, North Carolina (October 2000).
- Joint conference of the Institute for Mathematics and its Applications and the Association for Women in Mathematics. Participant. Minneapolis, Minnesota (September 2000).
- 5th Workshop on Numerical Ranges and Radii. Participant. Nafplio, Greece (June 2000).
- Canadian Mathematical Society. Board Member. Hamilton, Ontario (June 2000).
- Western Canadian Linear Algebra Meeting. Contributed Paper. Winnipeg, Manitoba (May 2000).
- Canadian Mathematical Society. Board Member. Montreal, Quebec (December 1999).
- International Linear Algebra Society. Contributed paper. Barcelona, Spain (July 1999).
- International Linear Algebra Society. **Invited speaker.** Madison, Wisconsin (June 1998).
- Canadian Mathematical Society. **Invited speaker.** Winnipeg, Manitoba (June 1997).
- Ph.D. Centennial Conference. **Mini-symposium organizer** and speaker. Madison, Wisconsin (May 1997).
- Focus '96. **Invited speaker.** Saskatoon, Saskatchewan (1996).
- International Linear Algebra Society. Contributed paper. Chemnitz, Germany (August 1996).
- Western Canada Linear Algebra Meeting. Contributed paper. Kananaskis, Alberta (June 1996).
- Canadian Mathematical Society. Participant. Calgary, Alberta (June 1996).
- International Linear Algebra Society. Contributed paper. Rotterdam, Holland (August 1994).
- Western Canada Linear Algebra Meeting. Contributed paper. Regina, Saskatchewan (September 1993).
- Workshop on Nonnegative Matrices, Applications and Generalizations. Contributed paper. Haifa, Israel (June 1993).
- The Eighth Haifa Matrix Theory Conference. **Invited speaker.** Haifa, Israel (June 1993).
- International Linear Algebra Society. Contributed paper. Pensacola, Florida (March 1993).
- Workshop on Matrix Theory. Contributed paper. Bielefeld, Germany (August 1992).
- International Linear Algebra Society. Contributed paper. Lisbon, Portugal (July 1992).
- IMA Workshop on Control Theory. Participant. University of Minnesota, Minneapolis, Minnesota (June 1992).
- Special Year in Applied Linear Algebra, Institute for Mathematics and its Application. Participant. University of Minnesota, Minneapolis, Minnesota (August – December 1991).
- IMA Workshop on Combinatorial and Graph-theoretic Problems in Linear Algebra. Participant. Minneapolis, Minnesota (1991).

- Institute for Mathematics and its Applications. Contributed paper. University of Minnesota, Minneapolis, Minnesota (November 1991).
- Matrix Analysis Symposium and Applications. Participant. Kalamazoo, Michigan (October 1991).
- SIAM conference on Applied Linear Algebra. Participant. Minneapolis, Minnesota (September 1991).
- Linear Algebra, Numerical Linear Algebra and Applications. Participant. Dekalb, Illinois (May 1991).