

Elizabeth Supplee Troutt

EDUCATION

- Ph.D., University of Wisconsin-Madison, 1994
- M.A., University of Wisconsin-Madison, 1990
- B.S., Cornell University, 1987

EXPERIENCE

- **Associate Professor**, Department of Economics, University of Manitoba. March 30, 2004 – present.
 - **Research areas:** sustainability and sustainable development, environmental economics, natural resource economics, nonprofit sector economics, gender and pay equity.
 - **Teaching areas:** environmental economics, sustainability and sustainable development, natural resource economics, mathematical economics, microeconomic theory.
 - **Associate Department Head** 2008 – 2012.
 - **Graduate Committee Chair / Co-Chair** 1998 – 2007; oversaw external Graduate Program Review and restructured department's Master's and PhD programs.
- **Assistant Professor**, Department of Economics, University of Manitoba. 1994 – 2004.
 - **Assistant Professor (nil salaried)**, Faculty of Environment, University of Manitoba. 2002 – 2003.
 - **Assistant Professor (nil salaried)**, Natural Resources Institute, University of Manitoba. 1999 – 2002.
- **Research Assistant**, Land Tenure Center, University of Wisconsin – Madison. 1992 – 1993.
- **Research Fellow**. Makerere University Institute of Social Research; Kampala, Uganda; Access to Land and Other Natural Resources Research and Policy Development Project, funded by the U.S. Agency for International Development, the World Bank, and the Government of Uganda. 1990 – 1992.
- **Research Assistant**, Department of Agricultural and Applied Economics, University of Wisconsin – Madison. 1987 – 1990.

PUBLICATIONS

Refereed journal articles

- Brown, Laura K., and Elizabeth Troutt. 2017. Sex and salaries at a Canadian university: the song remains the same or the times they are a changin'? Forthcoming (September 2017) in *Canadian Public Policy*.
- Brown, Laura K., and Elizabeth Troutt. 2017. A re-analysis of the trade and welfare effects of export subsidies. Forthcoming in *Applied Economics Letters*. Published online at Taylor & Francis Online on 26 May 2017. Forthcoming in print.
- Brown, Laura K., Elizabeth Troutt, and Susan Prentice. 2011. Ten years after: sex and salaries at a Canadian university. *Canadian Public Policy* 37(2): 239-255.
- Brown, Laura K., Elizabeth Troutt, Cynthia Edwards, Brian Gray, and Wanjing Hu. 2011. A uniform price auction for conservation easements in the Canadian prairies. *Environmental and Resource Economics* (2011) 50: 49-60.
- Brown, Laura K., and Elizabeth Troutt. 2007. Reporting does not equal accountability! The importance of funding characteristics and process on accountability. *International Journal of Public Administration* 30(2, January 15, 2007): 209-225.
- Seixas, Cristiana, and Elizabeth Troutt. 2004. Socio-economic and ecological feedbacks in lagoon fisheries: Management principles for a co-evolutionary setting. *Interciencia* 29(7, July): 362-368.
- Brown, Laura K., and Elizabeth Troutt. 2004. Funding relations between nonprofits and government: A positive example. *Nonprofit and Voluntary Sector Quarterly* 33(1, March): 5-27.
- Brown, Laura K., and Elizabeth Troutt. 2004. A cooperative approach to accountability: Manitoba's family violence prevention program. *International Journal of Public Administration* 27(5): 309-330.
- Seixas, Cristiana, and Elizabeth Troutt. 2003. Evolution of a local Brazilian shrimp market. *Ecological Economics* 46(3): 399-417.

Refereed book chapters

- Numerous authors. 2017. Chapter 4: Direct and indirect drivers of change in biodiversity and nature's contributions to people. IPBES Regional Assessment for the Americas. Second Order Draft. United Nations: Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES). Currently under revision following global external review. (<http://www.ipbes.net/registration-first-external-review-global-assessment>).

- Brown, Laura K., and Elizabeth Troutt. 2003. Stability and stress in the relationship between government and the non-profit sector: The case of Manitoba. In *Interesting Times and the Voluntary Sector: Evolving Relationships, Regulations and Fiscal Realities*, edited by Keith Banting and Kathy Brock. Kingston: McGill-Queen's University Press, pp. 177-217.
- Brown, Laura K., Elizabeth S. Troutt, and Attah K. Boame. 2000. The non-profit sector in Manitoba: a baseline study. In *The Canadian Non-Profit Sector*, edited by Keith G. Banting. McGill-Queen's University Press, pp. 191-228.

Refereed technical reports

- Barg, Stephan, Laura Brown, Aaron Cosbey, Elizabeth Troutt, Allen Tyrchniewicz, and Sarah Van Exan. 2001. Environmental protection and business competitiveness. Public Policy Forum. (No. 56.)
- Numerous authors. 2001. *A technical proposal for the conservation easement price discovery pilot project*. Ducks Unlimited Canada.
- Stephan Barg, Laura K. Brown, Chantal Guertin, and Elizabeth S. Troutt. 2000. Ecological fiscal reform project: A context paper. National Roundtable on the Environment and the Economy (NRTEE).
- Stephan Barg, Attah Boame, Laura Brown, Linda Deriviere, Elizabeth Troutt, and Dominique Wranik-Lohrenz, with Marlene Roy. 2000. Analysis of ecological fiscal reform activity in Canada. National Roundtable on the Environment and the Economy (NRTEE).

Other publications

- Brown, Laura, and Elizabeth Troutt. 2007. Non market costing – tentative workplan. Chapter 4 of *Full Cost Accounting for Agriculture – Year 3 Report: Impact Pathway Analysis for Tobacco Creek Model Watershed*, by Barg, Stephan, Bryan Osborne, Darren Swanson, and Henry David Venema, with a chapter by Laura Brown and Elizabeth Troutt. Prepared for Agriculture and Agri-Food Canada by International Institute for Sustainable Development: Winnipeg, Manitoba, Canada. Pp. 67 – 76.
- Brown, Laura, and Elizabeth Troutt. 2007. Manitoba's nonprofit sector. *The Encyclopedia of Manitoba*. Great Plains Publications: Winnipeg, Manitoba, Canada. p. 500.
- Brown, Laura, and Elizabeth Troutt. 2003. Results from the conservation easements/agreements survey. Statistical analysis and policy recommendations report prepared for Ducks Unlimited Canada.

- Numerous authors. 2002. Easement information, auction description, and bid materials for the conservation easements/agreements project.
- Johnson, Gary, and Elizabeth Troutt. 1997. General discussion of externalities and market-based instruments to internalize them. In *Workbook on Market Incentives and Fiscal Policy*, Manitoba Roundtable on the Environment and Economy.
- Lyne, Mike, Michael J. Roth, and Betsy Troutt. 1997. Land rental markets in sub-Saharan Africa: institutional change in customary tenure. *International Association of Agricultural Economists Occasional Paper Series No. 7*, pp. 58-67.
- Troutt, Elizabeth, Mark Marquardt, W. Kisamba-Mugerwa, and Richard Barrows. 1996. The dynamics of the land market and the issue of compensation in Uganda. Uganda Research Paper No. 5. Land Tenure Center, University of Wisconsin-Madison, and Makerere Institute of Social Research, Makerere University, Kampala, Uganda.
- Troutt, Betsy. 1996. Teaching with small groups: my experience. *UTS Newsletter*. University of Manitoba. Vol. 4 (3, January): 10-11.
- Troutt, Elizabeth. 1994. Rural African land markets and access to agricultural land: the Central Region of Uganda. Uganda Research Paper No. 8. Land Tenure Center, University of Wisconsin-Madison, and Makerere Institute of Social Research, Makerere University, Kampala, Uganda.
- Troutt, Elizabeth. 1994. *The effects of land markets on rural households' access to land in central Uganda*. Report for the Agricultural Secretariat in the Bank of Uganda.
- Barrows, Richard and Elizabeth Troutt. 1989. A national perspective on data needs for agricultural land use in urbanizing areas. In *Land Use Transition in Urbanizing Areas: Research and Information Needs*. R. E. Heimlich (ed.). Proceedings of a Workshop Sponsored by the USDA Economic Research Service and Farm Foundation. Washington, D.C.: The Farm Foundation. pp. 1-13.
- Barrows. 1988. Capitalization of the value of seller financing in agricultural land transactions. Prepared for Wisconsin Department of Revenue.

Work in progress

- Brown, Laura K., Ryan Godwin, and Elizabeth Troutt. Determinants of landowners' willingness to bid for conservation easements on their land: results from a survey conducted in conjunction with a reverse auction for conservation easements. Working paper.
 - Working paper stage.
 - Model (game tree) designed.
 - Data analysis complete.

- Brown, Laura K., Susan Prentice, and Elizabeth Troutt. Systemic discrimination and institutional change: sex-based faculty salary gaps at Canadian universities. Data collection stage.
 - Data collection stage.
 - Funded by a 2017 – 2018 University of Manitoba/SSHRC research grant, this work is a pilot study of three Canadian universities. It will: (1) generate a refereed journal article in its own right; and (2) inform the development of the conceptual framework and research methods for an application for a SSHRC Standard Research Grant to examine salary discrimination redress across a comprehensive set of Canadian universities.
 - Initial scholarly literature search completed.
 - Compilation of archival materials/documents on gender equity and salaries completed for each pilot university.
 - Chronological summary of events pertaining to gender equity and salaries and key players involved drafted for each university.
 - Key informants identified for each university.
 - Survey instrument for key informant interviews developed.

- Brown, Laura K., and Elizabeth Troutt. Collectively bargained salary structures and sex equity in faculty salaries: illustrations from a Canadian university.
 - Data analysis stage.
 - This paper will argue that apparently neutral changes to overall structures can male and female salaries differentially, changing the salary gap over time. While examining changes in salary equity over time at the University of Manitoba for our 2017 paper, we compiled a table of movements in the collectively bargained salary structure at the University since 1990. We noticed patterns in the evolution of the salary structure that played a role in sex-based salary gaps.

- Brown, Laura K., and Elizabeth Troutt. Can we be too careful?: how differential levels of care can lead to unequal promotion.
 - Modelling stage.
 - This paper will demonstrate how unequal promotion rates for different types of individuals can result from a combination of asymmetric errors and different variances on the part of assessors. Our hypothesis is that, when assessor errors are asymmetric such that the probability of a positive decision exceeds that of a negative one while their variances differ depending on the type of applicant, members of the favoured group receive positive results more often than do members of the unfavoured group, perpetuating unequal outcomes.
 - Our hypothesis stems from our analysis of University of Manitoba salary equity (2011 and 2017 journal publications), in which we believe that different promotion

- rates of male and female faculty to the full professor rank are significantly responsible for the persistence of a sizable salary gap in academic salaries at the University.
- However, the model we are developing for this paper will apply to selection problems across a wide variety of contexts.
 - Brown, Laura K., and Elizabeth Troutt. People of the state: comparing outcomes of refugees by sponsor type.
 - Literature review and assessment of data sources stage.
 - We will examine whether the outcomes of government- and privately-sponsored refugees differ five and ten years after landing.
 - Brown, Laura K., and Elizabeth Troutt. Gender segregation within organizations: have we come a long way, baby?
 - Assessment of data sources stage.
 - We will analyse whether the degree of gender integration in the labour market has changed since a 1960s study found a high degree of gender segregation in a group of 373 private sector companies.

NOTEWORTHY RESEARCH ACHIEVEMENT

- Nominated by Government of Canada and selected by the Multidisciplinary Expert Panel to Lead Author role of Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services.
 - Invited to Lead Author role on IPBES Regional Assessment for the Americas, Direct and indirect drivers of change in biodiversity and nature's contributions to people (Chapter 4).
 - IPBES, like the Intergovernmental Panel on Climate Change, is under the auspices of four United Nations agencies (UNEP, UNESCO, FAO, UNDP); it is headquartered in Bonn, Germany, and administered by UNEP (IPBES: www.ipbes.net).
 - All of the regional assessments are externally reviewed internationally.

GRANTS

Year(s)	Title of Grant	Source	Approx. Amount
2017-2018	Systemic discrimination and institutional change: sex-based faculty salary gaps at Canadian universities (with Laura Brown & Susan Prentice)	University of Manitoba/SSHRC	\$6,944
2011	Analysis of conservation easements survey data (with Laura Brown)	Department of Economics; University of Manitoba	\$1,500
2006-2008	Assessing the relationship between environmental conditions and human health in Manitoba	Manitoba Research Data Centre	\$4,000
2006	Building a dataset on Uganda land tenure	Faculty of Arts; University of Manitoba	\$1,000
2001-2004	Toward understanding the growth of the nonprofit sector (with Laura Brown)	SSHRC	\$60,000
2001-2003	Valuation of conservation easements (with Laura Brown)	Ducks Unlimited Canada	\$40,000
1999	The interplay of policy and Manitoba's non-profit sector (with Laura Brown)	Kahanoff Foundation Non-Profit Research Initiative	\$16,000
1997	The non-profit sector in Manitoba: a baseline survey (with Laura Brown and Costas Nicolaou)	Kahanoff Foundation Non-Profit Research Initiative	\$15,000
1997	Intervener funds, the balance of power, and the pursuit of sustainable development	University of Manitoba/SSHRC	\$5,000
1996	Creating a time series dataset on central Ugandan land markets	University of Wisconsin (Land Tenure Center)	US \$10,000
1995-96	Development of Case Studies & Problem-Solving Assignments for Natural Resource, Environmental, & Sustainable Devt Economics Courses (with John Gray)	University of Manitoba Program Development Fund	\$10,000
1995	Establishing a research program in sustainable development: in search of funds to defray the costs of generating a large research proposal	University of Manitoba Research Development Fund	\$5,000

1995	National Environmental Education and Training Program for First Nation Youth (with Don Castleden of Continuing Education Division and Gordon Robinson of Environmental Science Program)	Manitoba Education & Training; Manitoba's Universities Incentive Fund	\$100,000
1994	The Evolution of Rural African Land Markets: Adding to the Evidence From Uganda	University of Manitoba/SSHRC	\$5,000

PRESENTATIONS

- 2017. Sex and salaries at the University of Manitoba. With Laura Brown. Faculty of Arts Equity, Diversity, and Human Rights Committee. University of Manitoba. Winnipeg, Manitoba. March 8, 2017.
- 2015. Sex and salaries at a Canadian university: the song remains the same or the times they are a changin? With Laura Brown. Department of Economics seminar. University of Manitoba. Winnipeg, Manitoba. November 27, 2015.
- 2015. Sex and salaries at a Canadian university: the song remains the same or the times they are a changin? With Laura Brown. 49th Annual Conference of the Canadian Economics Association. Toronto, Ontario. May 29, 2015.
- 2015. Sex and salaries at the University of Manitoba. With Laura Brown. Department of Economics Mini Conference in Honour of Wayne Simpson. University of Manitoba. Winnipeg, Manitoba. March 14, 2015.
- 2010. A Canadian price discovery study using a uniform price auction for conservation easements. With Brown Laura. 44th Annual Conference of the Canadian Economics Association. Quebec City, Quebec. May 29, 2010.
- 2010. A Canadian price discovery study using a uniform price auction for conservation easements. With Brown Laura, Cynthia Edwards, Brian Gray, and Wanjing Hu. 70th International Atlantic Economic Conference. Charleston, South Carolina, USA. October 13, 2010.
- 2007. Sex and salaries at the University of Manitoba: systemic discrimination in a Canadian university? With Laura Brown and Susan Prentice. Canadian Employment Research Forum. 41st Annual Meeting of the Canadian Economics Association. Halifax, Nova Scotia. May 31, 2007.
- 2006. Use of a Vickrey auction with hidden reserve price to discover the value of conservation easements. With Wanjing Hu, Brian Gray, Laura Brown, and Cynthia Edwards.

40th Annual Meetings of the Canadian Economics Association. Montréal, Quebec. May 26, 2006.

- 2006. Sex differentials in UMFA salaries: 1993 & 2003. With Laura Brown and Susan Prentice. University of Manitoba Faculty Association. Winnipeg, Manitoba. April 27, 2006.
- 2005. Use of a Vickrey auction with a hidden reserve price to discover the value of conservation easements. With Laura Brown, Cynthia Edwards, Brian Gray, and Wanjing Hu. Windows of Opportunities for Advancing Ecological Economics Conference. Canadian Society for Ecological Economics. Toronto, Ontario. October 28, 2005.
- 2003. Cuts, coping, and nonprofits. Fourth Annual National Forum of the Public Policy and Third Sector Initiative. Queen's University School of Policy Studies. Kingston, Ontario. October 24-25, 2003.
- 2002. Reporting does not equal accountability! The importance of funding characteristics and process on accountability. Association for Research on Nonprofit Organizations and Voluntary Action (ARNOVA) Annual Conference. Montréal, Quebec. November 16, 2002.
- 2002. A cooperative approach to accountability: Manitoba's family violence prevention program. Association for Research on Nonprofit Organizations and Voluntary Action (ARNOVA) Annual Conference. Montréal, Quebec. November 16, 2002.
- 2002. The University of Manitoba Faculty Association's experience bargaining family friendly leaves. Canadian Association of University Teachers Status of Women Conference. Montréal, Quebec. October 24-26, 2002.
- 2002. Economics and independence of the voluntary sector in Manitoba. Manitoba Voluntary Sector Initiative seminar series. Winnipeg, Manitoba. November 27, 2002.
- 2000. The relationship between government and the nonprofit sector in Manitoba. Non-Profit Sector Research Initiative Workshop. Queen's University. Kingston, Ontario. November 23-24, 2000.
- 2000. The non-profit sector in Manitoba. Manitoba Association of Business Economists. Winnipeg, Manitoba. May 2000.
- 2000. Lessons learned applying for tenure. University of Manitoba Faculty Association Workshop on Applying for Tenure and Promotion. Winnipeg, Manitoba. July 2000.
- 2000. Ecological economics. Resource Conservation Manitoba's Conference on Ecology of Waste Reduction: Stewardship and Sustainability. Winnipeg, Manitoba. April 28, 2000.
- 1999. The non-profit sector in Manitoba. Department of Economics seminar series. University of Manitoba. Winnipeg, Manitoba.

- 1998. Environmental Economics. Half-day workshop. Envirovet Summer Institute. Minneapolis, Minnesota, USA. August 20, 1998.
- 1998. The non-profit sector in Manitoba: a baseline survey. Non-Profit Research Initiative Workshop. Queen's University. Kingston, Ontario. November 1998.
- 1998. Response to using classroom experiments to teach economics. American Economics Association Annual Conference. Chicago, Illinois, USA. January 3, 1998.
- 1998. Manitoba's nonprofit sector. Faculty of Arts SHOWCASE '98 exhibit. University of Manitoba. Winnipeg, Manitoba. November 1998.
- 1996. More evidence on land market activity in the central region. Makerere Institute of Social Research. Makerere University. Kampala, Uganda. June 1996.
- 1996. Sustainable development principles, technologies, and policies. Association of Manitoba Engineers Sustainable Development and the Engineers of the Future Conference. Winnipeg, Manitoba. September 25, 1996.
- 1995. Given today's challenges, what type of skills make a successful engineer? Association of Manitoba Engineers Capitalizing on Today's Challenges Conference. Winnipeg, Manitoba. September 27, 1995.
- 1995. Market-based incentives to promote environmental sustainability in agriculture. Day-long workshop. Manitoba Pool Operators. Brandon, Manitoba. March 1995.
- 1995. Women's economic equality. Manitoba and Northwester Ontario Ten Days for World Development Gender & Global Justice: Power, Participation & Economic Justice Conference. Winnipeg, Manitoba. February 26, 1995.
- 1994. Land rental markets in sub-Saharan Africa: Institutional change in customary tenure. With Mike Lyne and Michael Roth. 22nd Triennial Conference of the International Association of Agricultural Economists. Harare, Zimbabwe. August 22-29, 1994.
- 1994. The effects of individualized property rights and land markets on access to rural land in central Uganda. Department of Economics. University of Manitoba. Winnipeg, Manitoba. July 1994.
- 1988. A national perspective on data needs for agricultural land use in urbanizing areas. With Richard Barrows. The Farm Foundation's Land Use Transition in Urbanizing Areas: Research and Information Needs Workshop. Washington, D.C., USA. June 6-7, 1988.

THESIS COMMITTEES

Ph.D. committees

- Xiang, Di. PhD, Economics/Agricultural Economics. Empirical analysis of British Columbia carbon tax. Committee member. Oversaw one of three papers. 2013 – 2015. Completed 2015.
- Mrena, Charles. PhD, Environment. Sustainable agricultural policy. Committee member. 2005 – 2010. Student withdrew from PhD program (personal reasons) in midst of dissertating.
- Seixas, Cristiana. PhD, Interdisciplinary. Brazilian social – ecological interactions in a coastal lagoon fishery. Committee member. 1996 – 2002. Completed 2002.
- McDonald, Christina. PhD, Interdisciplinary. Sustainable development curriculum design. Committee member. 1998 – 2000. In 2000, student changed dissertation topics and replaced her committee.
- Wuttunee, Wanda. PhD, Interdisciplinary. Economic development in Aboriginal communities. Committee member. 1995 – 2001. Completed in 2001.
- Magness, Vanessa. PhD, Economics. Impact of environmental accidents on behaviour of TSE traded companies. Committee member. Completed in 2000.

Master's committees

- Xu, Jiaye Rita. MA, Management. Sustainability of inland ports. Committee member. 2016 – ongoing.
- Benger, Matthew. MA, Political Studies. Canadian politics of climate change. Committee member. 2013 – ongoing.
- Adelman, Matthew. MA, Management. Effective implementation of inland ports. Committee member. 2014 – 2015. Completed 2015.
- Friesen, Melodie. MA, Economics. Community economic development. Committee Member. 2004 – 2005. Completed 2005.
- Schoofs, Kenneth. MNRM, NRI. Ecological footprint. Supervisor. 1997 – 2001. Student discontinued (personal reasons) in 2001.
- Diziak, Richard. MS. Municipal water rates. Committee member. Completed 1999.
- DeLuca, Adriana. MA, Economics. Public – private partnerships. Committee member.

Completed 1999.

- Mukahanana, Margaret. MNRM, NRI. Analysis of Zimbabwe's CAMPFIRE policy to preserve wildlife. Committee member. Completed 1999.
- Menzies, Connie. MNRM, NRI. Beaver management in Riding Mountain National Park. Committee member. Completed 1998.
- Shewchuk, Leanne. MNRM, NRI. Cost-benefit analysis. Committee member. Completed 1998.
- Stevens, Greg. MNRM, NRI. Property rights in British Columbia forests. Committee member. Completed 1997.
- Dewandel, Marcia. MNRM, NRI. Gopher control in Manitoba. Committee member. Completed 1997.
- Fanai, Nicholas. MEng, Engineering. Risk analysis. Committee member. Completed 1995.
- Christie, Raquel. MS, Agricultural Economics. Environmental accounting for the agricultural producer. Committee member. Completed 1995.

Undergraduate committees

- Collette, Rochelle. Honours, Environmental Science. Committee member. 2010 – 2011. Completed 2011.

TEACHING

Undergraduate

Introductory-level Economic Theory

Macro (1020 A03), W2016 (supersection: 203 students)
Macro (1020 A04), W2016 (supersection: 197 students)
Micro (1010 A02), F2014 (supersection: 225 students)
Macro (1020 A07), W2014 (110 students)
Micro (1200 A07), F2010 (160 students)
Micro & Macro (1200 A08), F2008-W2009 (supersection: 200 students)
Micro & Macro (1200 A10), F2007-W2008 (115 students)
Intro to Global & Environ Ec Issues & Policies (18.122), W2003 (70 students)
Intro to Global & Environ Ec Issues & Policies (18.122), F1997 (75 students)

Mathematical Economics 1 (Econ 2030 / Econ 2530 / 2610 / 18.253)

F2016 (90 students)
F2015 (60 students)
F2014 (A01; 50 students)
F2014 (A02; 50 students)
F2012 (80 students)
F2010 (1 student)
F2007 (68 students)
F2006 (80 students)
F2005 (67 students)
F2004 (50 students)

Introduction to Environmental Economics (2390 / 18.239 / 61.239)

F2016 (100 students)
W2016 (100 students)
S2015 (50 students)
W2015 (100 students)
S2014 (50 students)
W2014 (80 students)
F2012 (95 students)
S2012 (50 students)
F2011 (80 students)
F2010 (75 students)
F 2008 (65 students)
F2007 (82 students)
F2006 (80 students)
F2004 (80 students)
F2003 (80 students)
F2002 (70 students)
W2001 (44 students)
F2000 (53 students)

F1999 (58 students)
F1997 (70 students)
F1996 (77 students)
F1995 (63 students)
F1994 (87 students)

Sustainable Development: Issues & Policies (3710 / 18.371 / 18.361)

W2011 (25 students)
W 2010 (20 students)
W2009 (25 students)
W2008 (25 students)
W2006 (22 students)
W 2005 (25 students)
W2004 (38 students)
W2001 (22 students)
W2000 (15 students)
W1999 (18 students)
W1999 (1 student)
W1998 (15 students)
W1997 (18 students)
W1996 (28 students)
W1995 (15 students)

Miscellaneous courses

Microeconomic Theory & Its Applications 2 (2460), W2012 (18 students)
Public Finance Part A (3370), F2009 (9 students)
Introduction to Energy Economics (18.240), W2000 (40 students)
Ecological Economics (18.449), W1998 (3 students)
Introduction to Energy Economics (18.240), W1996 (42 students)
Introduction to Energy Economics (18.240), W1995 (64 students)

Graduate

Readings in Sustainable Development (18.730)

W1996 (1 student)

Sustainable Development (18.730)

F1996 (1 student)

Economics of Resource Conservation: Theory & Practice (18.723)

2004 – 05 (1 student)

Economics of Environmental Management (18.723)

1998 – 99 (1 student)

Survey of Mathematical Topics for Economists (18.604)

F1996 (11 students)

F1995 (17 students)

Sustainable Development of Natural Resource-based Industries (18.450)

W2000 (1 student)

Natural Resource Economics (18.447; graduate Natural Resources Institute students & honours Economics student)

2005 – 06 (5 students)

1998 – 99 (6 students)

1997 – 98 (17 students)

1996 – 97 (28 students)

SERVICE

Department of Economics committee service

- Undergraduate Committee: 2014 - 2017
 - Involves considerable time advising undergraduate students during summer months
- Steering Committee: 2014 – 2016, 2010 – 2012
- Graduate Studies Committee: 1995 – 2008
- Computer Committee: 2005 – 2010, 2003 – 2004, 1995 – 1997
- Awards Committee: 2004 – 2006, 1997 – 2001
- Library and Research Committee: 1999 – 2001
- Honours Committee: 1997 – 1998
- Ad hoc committee on four-year programs: 1997 – 1998
- Ad hoc committee on first-year courses: 1997 – 1998
- Teaching Committee: 1996 – 1998
- Appointments and Renewals Committee: 1995 – 1996

Department of Economics administrative service

- Associate Head: 2009 – 2012
- Acting Head: October – December 2010, December 2011
- Co-Chair, Computer Committee: 2006 – 2010
- Chair/Co-Chair, Graduate Studies Committee: 1998 – 2007
- Creation and maintenance of departmental computer lab, including fundraising and design: 1996 – 2010
- Chair, Library and Research Committee: 1999 – 2001
- Chair, Teaching Committee: 1997 – 1998

Faculty of Arts committee service

- Local Discipline Committee: 2014 – present
- New Faculty Mentor (Political Studies faculty member): 2012 – present
- Admissions Committee, B.A. Integrated Studies (BAIS) Program: 2010 – 2015
- Local Area Safety & Health Committee: 2010 – 2012
- Dean's search advisory committee, assistant professor position in macroeconomics, Department of Economics, department representative: 2011
- Dean's search advisory committee, another assistant professor position in macroeconomics, Department of Economics, department representative: 2011

- Arts Tenure and Promotion Nucleus Committee: 2007 – 2010
 - numerous tenure committees
 - numerous promotion committee
- Arts Promotion Committee, Department of Economics, department representative: 2008
- Dean’s search advisory committee, external search, Head position, Department of Economics, Dean’s representative: 2007 – 2008
- Dean’s search advisory committee, assistant professor position in applied econometrics, Department of Economics, departmental representative: 2007 – 2008
- Dean’s search advisory committee, assistant professor position in time series econometrics, Department of Economics, departmental representative: 2007 – 2008
- Dean’s search advisory committee, assistant professor position in Canadian economic policy, Department of Economics, department representative: 2006 – 2007
- Arts Executive Committee: July – December, 2006
- Dean’s search advisory committee, assistant professor position in development economics, Department of Economics, department representative: 2003 – 2004
- Endowment Fund Committee: 1996 – 2000
- Arts Environmental Studies Program Steering Committee: 2000 – 2001
- Dean’s search advisory committee, Head, Department of Geography, Dean’s representative: 1997 – 1998
- Technology Committee: 1996 – 1997

University of Manitoba service

- University of Manitoba & University of Manitoba Faculty Association Gender Based Salary Differentials Committee, Expert Advisor: 2017 - ongoing
- University of Manitoba Sustainability Strategy, Working Group D, Member: 2011 – 2012
- Faculty of Science Council Economics Representative: 2011 – 2012
- Faculty of Human Ecology, Dean’s representative, Search Advisory Committee, assistant professor position in Family Economic Health, Department of Family Social Sciences: 2008 – 2009
- University of Manitoba Senate, Arts Senator: 2006 – 2009
- Faculty of Graduate Studies Council, Department of Economics representative: 2002 – 2008, 1997 – 2001
- University Teaching Services, Peer Consultant: 2003 – 2008
- Faculty of Environment, Academic Mentor: 2003 – 2004
- Faculty of Environment, ad hoc Environmental Studies Advisory Committee: 2002 – 2003
- Vice President-Academic’s working group on creation of a new academic unit for

environmental education and research at the University of Manitoba: 2000 – 2001

- Our work led to the creation of what is now the University's Clayton H. Riddell Faculty of Environment, Earth, and Resources
- Natural Resources Institute, Assistant Professor (nil salaried): 1996 – 2001
 - Admissions Committee, Member: 1996 – 2001
 - Academic Committee, Member: 1996 – 2001

University of Manitoba Faculty Association (UMFA) service

- Collective Agreement Committee (CAC), Member: 2004, 2001, & 1998 bargaining rounds
- Status of Women Committee, Member: 2002 – 2004
 - Co-Chair: 2003 – 2004
- Vice President: 2002 – 2003
- UMFA Assessor to University of Manitoba Senate: 2002 – 2003
- Created and led series of women's constituency brown bag lunches: 2002 – 2003
- Major contributor to development of survey of members' bargaining priorities: 2002 – 2003
- Conference of the Association of Western Regional Faculty Associations, Athabasca University, UMFA representative: September 2002
- Canadian Association of University Teachers Status of Women Conference, Montréal, Quebec, presented UMFA's experience bargaining family-friendly leaves: October 2002
- Executive Committee Member: 2000 – 2001
- Presented at UMFA's workshop on applying for tenure and promotion: 2000

Service to broader academic community

- Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), United Nations, First Assessment, Americas Region, Chapter 4, Lead Author status: 2017
- Tobacco Creek Model Watershed (Manitoba Canada), economic and policy analysis: 2007 – 2012
- Government of Canada, Blue Ribbon Panel on Grants and Contributions, web dialogue on Exploring Fundamental Premises, participant/consultant (by invitation): October 30 – November 3, 2006
- Social Sciences and Humanities Research Council, proposal review: 2009, 2004
- Referee:
 - *Nonprofit and Voluntary Sector Quarterly*
 - *Environmental and Resource Economics*
 - *Environmental Conservation*

- *Canadian Journal of Nonprofit and Social Economy Research*
- *Economic Papers* (journal of Economic Society of Australia)
- *Canadian Journal of Development Studies*
- Nonprofit and Voluntary Sector Research Network
 - Steering Committee, Member: 2000 – 2005
 - Sub-committee on Mission, Vision, and Guiding Principles, Member: 2002 – 2003
- Envirovet Summer Institute (hosted by University of Illinois at Urbana-Champaign College of Veterinary Medicine; held in Minnesota, USA), Environmental and ecological economics course, instructor: 1998

Local community service

- Member, Women’s Advisory Committee, Manitoba Cycling Association: 2017 – present
- Treasurer, Velodonnas Women’s Cycling Club: 2016 – present
- Member, Finance Committee, Old Grace Housing Co-op: 2016 – 2017
- Member, Board of Directors, Manitoba Hazardous Waste Management Corporation: 2015 – 2017
- Steering Committee Member, Manitoba Climate Change Connection (Manitoba hub of national climate change committee system): 2004 – 2006
- Resource Conservation Manitoba (now Green Action Centre):
 - Board of Directors, Member: 2000 – 2007
 - Vice President: 2002 – 2003
- Member, Working Group on Market Incentives and Fiscal Policy (MIFP), Manitoba Roundtable on the Environment and the Economy: 1996 – 2000
- Steering Committee Member, Winnipeg Sustainable Development Coalition: 1994 – 1997
- Presenter, numerous Winnipeg junior and senior high schools: 1994 – 1995
 - Economics as a course of study and profession
 - Uganda, Africa, and/or sustainable development
- Presenter, Manitoba Pool Elevators (environmental economics and economic policy instruments): 1995

National-level service

- Agriculture and Agri-Food Canada, Agri-Environmental Valuation Expert Advisory Committee, Member (unpaid): 2006 – 2008
- Natural Resources Canada, Sustainable Development Strategy, Consultant (unpaid): 2006, 2003, 2000
- Centre for Indigenous Environmental Resources (CIER):

- Member, Curriculum Design Committee, National Environmental Education & Training Program: 1995 – 1998
- Instructor, 2 modules: 1997
- Environment Canada, Environmental Economics Unit, Non-market valuation techniques, Consultant (unpaid), Statistics Canada and Canadian Centre for Philanthropy, Canadian Survey of Giving, Volunteering, and Participating: 2002
- Advisor, Joint Accord Tables on the Initiative Between the Government of Canada and the Canadian Voluntary Sector, Public Policy Forum, Funding Group: 2002
- Consultant (paid): 1995 - 1997

PROFESSIONAL MEMBERSHIPS

- Canadian Economics Association
- International Society for Ecological Economics
- Canadian Society for Ecological Economics