

## CURRICULUM VITA

Arthur J. Caplan

Professor of Economics

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### ACADEMIC DEGREES

Ph.D. Economics, University of Oregon, Eugene, 1996

*Dissertation Title:* "Asymmetric Externalities and Strategic Behavior: The Case of Moderate Global Warming."

M.A. Agricultural Economics, Washington State University, Pullman, 1986

*Thesis Title:* "Costs, Returns, and Relative Soil Loss Comparisons of Alternative Tillage Systems in the Three Precipitation Zones of the Palouse River Basin, Washington."

B.A. Economics and Communications, University of Michigan, Ann Arbor, 1983

### FIELDS OF SPECIALIZATION

Primary Field: Environmental Economics

Secondary Field: Applied Microeconomics

Teaching Experience: Microeconomics, Macroeconomics, Environmental Economics and Policy, Quantitative Analysis, Development Economics, Public Policy

## **PREVIOUS PROFESSIONAL EXPERIENCE**

Director of Applied Economics Graduate Programs, Utah State University, 2008-2012.

Associate Professor, Department of Applied Economics, Utah State University, 2005 – 2011.  
Promoted to Professor in 2011.

Associate Editor, *Journal of Hydrology*, Elsevier, 2007 – 2010.

Fulbright Scholar, Department of Economics, University of Botswana, 2007 – 2008.

Assistant Professor, Department of Economics, Utah State University, 2001 – 2005.  
Promoted to Associate Professor in 2005.

Assistant Professor, Department of Economics, Weber State University, 1996 – 2001.

Graduate Teaching Fellow, Dept. of Economics, University of Oregon, 1991 – 1996.

Canvasser, Clean Water Action, Minneapolis, MN, 1990 – 1991.

Coordinator, Small Projects Assistance Program, U.S. Peace Corps, Botswana, Southern Africa, 1989-1990.

Farming Systems Economist, Agricultural Technology Improvement Project, U.S. Peace Corps, Botswana, Southern Africa, 1986-1989.

## **PUBLISHED RESEARCH AND WORK-IN-PROGRESS**

*Publications in Refereed Journals* (\* indicates co-authored with a graduate student)

1. Caplan, Arthur J. and Man-Keun Kim (2017) “A Note on Mitigating the Adverse Scale Effects Associated with Daily Driving Restrictions.” Forthcoming in *Environment and Development Economics*.

2. Caplan, Arthur J. (2017) “The Simple Economics of Conservation Clubs.” *Environment and Natural Resources Research* 7(2), 112-130.

\*3. Moscardini, Leo and Arthur J. Caplan (2017) “Controlling Episodic Air Pollution with a Seasonal Gas Tax: The Case of Cache Valley, Utah.” *Environmental and Resource Economics* 66(4), 689-715.

4. Caplan, Arthur J. (2016) “Uncertainty and the Voluntary Provision of a Pure Public Good in a Two-Moment Decision Model.” *Journal of Public Economic Theory* 18(6), 910-922.

- \*5. Caplan, Arthur J., Charles Sims, and E. Jordan Anderson (2014) “Measuring the Environmental Cost of Hypocrisy.” *Ecological Economics* 108, 124-135.
6. Caplan, Arthur J. (2014) “Measuring the Surplus of Superficiality: The Case of Dented Bumper Repair.” *Applied Economics Letters* 21(14), 992-996.
- \*7. Basdekas, Leon, Luis A. Bastidas, Thomas B. Hardy, Arthur J. Caplan, and Mac McKee (2014) “Virgin River Multi-Objective Optimization: Maximizing Endangered Fish Habitat and Minimizing Costs.” *International Journal of River Basin Management* 12(1), 15-28.
- \*8. Dunn, Jarod, Arthur J. Caplan, and Ryan Bosworth (2014) “Measuring the Value of Plastic and Reusable Grocery Bags.” *Journal of Environmental Economics and Policy* 3(2), 125-147.
- \*9. Caplan, Arthur J. and Yuya Sasaki (2014) “Benchmarking an Optimal Pattern of Pollution Trading: The Case of Cub River, Utah.” *Economic Modelling* 36(1), 502-510.
- \*10. Caplan, Arthur J., John Gilbert, and Devalina Chatterjee (2013) “Using Field-Level Characteristics as Proxy Measures to Test for the Presence of Economies of Scale in Nonpoint Pollution Control.” *Agricultural and Resource Economics Review* 42(2), 365-386.
11. Caplan, Arthur J. (2013) “Water Quality Trading in the Presence of Abatement Cost Sharing.” *Contemporary Economic Policy* 31(2), 279-290.
12. Caplan, Arthur J. (2011) “Carbon Sequestration and Permit Trading on the Competitive Fringe.” *Economic Modelling*, 28(6), 2803-2810.
13. Caplan, Arthur J. and Emilson C.D. Silva (2011) “Impure Public Goods, Matching Grant Rates, and Income Redistribution in a Federation with Decentralized Leadership and Imperfect Labor Mobility.” *International Tax and Public Finance*, 18(3), 322-336.
- \*14. Mukherjee, Shibashis and Arthur J. Caplan (2011) “GIS-Based Estimation of Housing Amenities: The Case of High Grounds and Stagnant Streams.” *Letters in Spatial and Resource Sciences*, 4(1), 49-61.
15. Caplan, Arthur J. and John Gilbert (2010) “Can Fighting Grade Inflation Help the Bottom Line?” *Applied Economics Letters*, 17(17), 1663-1667.
16. Caplan, Arthur J., Douglas Jackson-Smith, and Sandra Marquart-Pyatt (2010) “Does ‘Free Sampling’ Enhance the Value of Public Goods?” *Applied Economics Letters*, 17(4), 335-339.
- \*17. Caplan, Arthur J., David Aadland, and Anthony Macharia (2010) “Estimating Hypothetical Bias in Economically Emergent Africa: A Generic Public Good Experiment.” *Agricultural and Resource Economics Review*, 39(2), 344-358.

- \*18. Larson, Jordan and Arthur J. Caplan (2009) "Estimating the Effectiveness of a Vehicle Miles Traveled Tax in Reducing Particulate Matter Emissions." *Journal of Environmental Planning and Management*, 52(3), 315-344.
19. Caplan, Arthur J. (2008) "Incremental and Average Control Costs in a Model of Water Quality Trading with Discrete Abatement Units." *Environmental and Resource Economics*, 41(3), 419-435.
- \*20. Sasaki, Yuya and Arthur J. Caplan (2008), "Matching Heterogeneous Traders in Quantity-Regulated Markets." *Computational Economics*, 31(4), 341-362.
21. Caplan, Arthur J. and John Gilbert (2008) "D is For Dillydally?" *Applied Economics Letters*, 15(14), 1085-1088.
22. Aadland, David M., Arthur J. Caplan, and Owen R. Phillips (2007) "A Bayesian Examination of Information and Uncertainty in Contingent Valuation." *Journal of Risk and Uncertainty*, 35(2), 149-178.
23. Bohara, Alok K., Arthur J. Caplan, and Therese Grijalva (2007), "The Effect of Experience and Quantity-Based Pricing on the Valuation of a Curbside Recycling Program." *Ecological Economics*, 64(2), 433-443.
24. Caplan, Arthur J. and Emilson C.D. Silva (2007) "An Equitable, Efficient, and Implementable Scheme to Control Global Carbon Dioxide Emissions." *International Tax and Public Finance*, 14(3), 263-279.
25. Caplan, Arthur J., Therese Grijalva, and Douglas Jackson-Smith (2007) "Using Choice Question Formats to Determine Compensable Values: The Case of a Landfill Siting Process." *Ecological Economics*, 60(4), 834-846.
26. Caplan, Arthur J. (2006) "A Comparison of Emissions Taxes and Permit Markets for Controlling Correlated Externalities." *Environmental and Resource Economics*, 34(4), 471-492.
27. Aadland, David and Arthur J. Caplan (2006) "Curbside Recycling: Waste Resource or Waste of Resources?" *Journal of Policy Analysis and Management*, 25(4), 855-874.
28. Aadland, David and Arthur J. Caplan (2006) "Cheap Talk Reconsidered: New Evidence From CVM." *Journal of Economic Behavior and Organization*, 60(4), 562-578.
- \*29. Caplan, Arthur J. and Yuya Sasaki (2006) "Interactive Geometry for Surplus Sharing in Cooperative Games." *Journal of Economic Education*, 37(3), 382.
30. Caplan, Arthur J. and John Gilbert (2006) "Interactive Scenario Analysis of Exhaustible Resource Problems." *Computers in Higher Education Economics Review*, 18, 4-9.

31. Caplan, Arthur J. (2005) "Seeing is Believing: Simulating Forest-Harvest Problems with Microsoft Excel in an Intermediate-Level Natural-Resource Economics Course." *Perspectives on Economic Education Research*, 1(1), 44-52.
32. Caplan, Arthur J. and Emilson C.D. Silva (2005) "An Efficient Mechanism to Control Correlated Externalities: Redistributive Transfers and the Coexistence of Regional and Global Pollution Permit Markets." *Journal of Environmental Economics and Management*, 49(1), 68-82.
- \*33. Tesfamichael, Aklilu, Arthur J. Caplan, and Jagath Kaluarachchi (2005) "Risk-Cost-Benefit Analysis of Atrazine in Drinking Water from Agricultural Activities and Policy Implications." *Water Resources Research*, 41(5), 1-13.
34. Aadland, David and Arthur J. Caplan (2004) "Incentive Incompatibility and Starting-Point Bias in Iterative Valuation Questions: Comment." *Land Economics*, 80(2), 312-315.
35. Caplan, Arthur J. (2003) "Reputation and the Control of Pollution." *Ecological Economics*, 47(2-3), 197-212.
36. Aadland, David and Arthur J. Caplan (2003) "Willingness to Pay for Curbside Recycling With Detection and Mitigation of Hypothetical Bias." *American Journal of Agricultural Economics*, 85(2), 492-502.
37. Caplan, Arthur J., Richard C. Cornes, and Emilson C.D. Silva (2003) "An 'Ideal Kyoto Protocol': Emissions Trading, Redistributive Transfers and Global Participation." *Oxford Economic Papers*, 55, 216-234.
38. Caplan, Arthur J., Therese Grijalva, and Paul M. Jakus (2002) "Waste Not or Want Not? A Contingent Ranking Analysis of Curbside Waste Disposal Options." *Ecological Economics*, 43(2-3), 185-197.
39. Caplan, Arthur J., Richard C. Cornes, and Emilson C.D. Silva (2000) "Pure Public Goods and Income Redistribution in a Federation with Decentralized Leadership and Imperfect Labor Mobility." *Journal of Public Economics*, 77(2), 265-284.
40. Aadland, David M. and Arthur J. Caplan (1999) "Household Valuation of Curbside Recycling." *Journal of Environmental Planning and Management*, 42(6), 781-800.
41. Brist, Lonnie E. and Arthur J. Caplan (1999) "More Evidence on the Role of Secondary Education in the Development of Lower-Income Countries: Wishful Thinking or Useful Knowledge?" *Economic Development and Cultural Change*, 48(1), 155-176.
42. Caplan, Arthur J. and Emilson C.D. Silva (1999) "Federal Acid Rain Games." *Journal of Urban Economics*, 46(1), 25-52.

43. Caplan, Arthur J., Christopher J. Ellis, and Emilson C.D. Silva (1999) “Winners and Losers in a World with Global Warming: Noncooperation, Altruism, and Social Welfare.” *Journal of Environmental Economics and Management*, 37(3), 256-271.

44. Silva, Emilson C.D. and Arthur J. Caplan (1997) “Transboundary Pollution Control in Federal Systems.” *Journal of Environmental Economics and Management*, 34(2), 173-186.

#### ***Book Chapters (Peer Reviewed)***

1. Finnoff, David and Arthur J. Caplan (2011) “Bioeconomics and International Trade: The Case of the Great Salt Lake, Utah.” *New Development in Computable General Equilibrium Analysis for Trade Policy*, John Gilbert ed., Frontiers in Economics and Globalization, Volume 7, Emerald Group Publishing, United Kingdom.

2. Caplan, Arthur J. and Emilson C.D. Silva (2005) “Equitable and Efficient International Schemes to Control Carbon Dioxide Emissions.” *The Political Economy of Policy Reform: Essays in Honor of J. Michael Finger*, Douglas Nelson ed., Contributions to Economic Analysis, Elsevier Inc., The Netherlands.

3. Caplan, Arthur J. (2002) “Poverty and Access to Health Care: An Academic Service Learning Project in Economics.” *Putting the Invisible Hand to Work: Concepts and Models for Service Learning in Economics*, K.M. McGoldrick and A. Ziegert eds., University of Michigan Press.

#### ***Educational Resources (Peer Reviewed)***

1. Caplan, Arthur J. and John Gilbert (2006) “Resource-Extraction Simulation Models in Excel.” An online supplement for Environmental and Natural Resource Economics by Tom Tietenberg, Seventh Edition, Boston: Pearson Education, Inc. Available at [http://wps.aw.com/aw\\_tietenberg\\_envnatrese\\_7/0,10924,2439699-,00.html](http://wps.aw.com/aw_tietenberg_envnatrese_7/0,10924,2439699-,00.html)

2. Caplan, Arthur J. and John Gilbert (2006) “How-To Manual for Resource-Extraction Simulation Models in Excel.” an online supplement for Environmental and Natural Resource Economics by Tom Tietenberg, Seventh Edition, Boston: Pearson Education, Inc. Available at [http://wps.aw.com/aw\\_tietenberg\\_envnatrese\\_7/0,10924,2439699-,00.html](http://wps.aw.com/aw_tietenberg_envnatrese_7/0,10924,2439699-,00.html).

#### ***Manuscripts in Review and In Progress***

1. Caplan, Arthur J., “Residential Water Conservation in the Presence of Climate Change.” Department of Applied Economics, Utah State University.

2. Oladi, Reza, Arthur J. Caplan, and John Gilbert, “Carbon Sequestration and Global Permit Trading.” Department of Applied Economics, Utah State University.

3. Caplan, Arthur J. and Reza Oladi, "Green Competition, Hybrid Equilibrium, and Establishment of a Resale Market." Department of Applied Economics, Utah State University.
4. Caplan, Arthur J. and Charles Sims, "A Game Theoretic Analysis of the Household's Decision to Produce Solar Electricity." Department of Applied Economics, Utah State University.
5. Acharya, Ramjee and Arthur J. Caplan, "Optimal Investment in Preventative Capital to Control Episodic Air Pollution Outbreaks: The Case of Cache County, Utah's "Red Air Day" Problem." Department of Applied Economics, Utah State University.

### ***Extension Publications***

1. Caplan, Arthur, Herbert Hinman, Thomas Hoffman, and Donald McCool, "1987 Crop Enterprise Budgets, Selected Tillage Systems, Western Whitman County, Washington." *Extension Bulletin 1427*. Washington State University, 1987.
2. Caplan, Arthur, Herbert Hinman, Thomas Hoffman, and Donald McCool. "1987 Crop Enterprise Budgets, Selected Tillage Systems, Central Whitman County, Washington." *Extension Bulletin 1433*. Washington State University, 1987.
3. Caplan, Arthur, Herbert Hinman, Thomas Hoffman, and Donald McCool. "1987 Crop Enterprise Budgets, Selected Tillage Systems, Eastern Whitman County, Washington." *Extension Bulletin 1437*. Washington State University, 1987.
4. Ketsitlile, T., A. Caplan, D. Norman, P. Bacon, and L. Modidi, "Estimated Tractor Costs For Ploughing in the Southern Region of Botswana." *Technical Report No. 9*. Ministry of Agriculture, Botswana, 1988.
5. Siebert, J., E. Modiakgotla, L. Malatsi, and A. Caplan, "Farmer Training in Row Planting And Mechanical Weeding." *ATIP Working Paper 29*. Ministry of Agriculture, Botswana, 1990.

### ***Publications in the Popular Press***

1. Caplan, Arthur J. (1998) "A Testimony for Recycling." *Northern Utah Junction*, Nov., pg 5.
2. Aadland, David and Arthur J. Caplan (2000) "Recycling in Utah: Too Little or Too Much?" *Salt Lake Tribune*, May 20.
3. Stafford, Edwin R. and Arthur J. Caplan (2001) "Why 'America Recycles Day' Matters." *Salt Lake Tribune*, November 11.
4. Stafford, Edwin R. and Arthur J. Caplan (2002) "Pay-as-You-Throw Puts Cost of Waste Removal on Heaviest Users." *Salt Lake Tribune*, January 27.

5. Caplan, Arthur J. (2002) "Logan Transportation at Crossroad." *The Logan Herald Journal*, Soapbox Column, December 7.
6. Caplan, Arthur J. (2004) "Air Woes Require Deeper Dialogue." *The Logan Herald Journal*, Soapbox Column, February 20.
7. Caplan, Arthur J. (2005) "Musings of a Cache Backpacker." *The Logan Herald Journal*, Soapbox Column, September 16.
8. Caplan, Arthur J. (2011) "A Practical Solution to our Red Air Day Problem." *The Logan Herald Journal*, Soapbox Column, January 31.
9. Caplan, Arthur J. (2014) "Land-Transfer Study Based on Shakiest of Assumptions." *Salt Lake Tribune*, Op-Ed, December 25.

## **RESEARCH GRANTS**

1. Seed Program to Advance Research Collaborations (SPARC) Grant – Co-Adaptation of a Large Carnivore and Human Society Across a Dynamic Wildland-Rural-Urban Interface (with D. Layne Coppock, Julie K. Young, and Kerry Rood), July – August 2017 (\$35,000), Co-PI.
2. National Institute of Food and Agriculture (NIFA) Cooperative Research, Education and Extension Management System (C-REEMS) Grant – Tannin-containing legumes in pasture lands and their ecological services (with Juan Villalba, Jennifer MacAdam, Jennifer Reeve, Man-Keun Kim, Roslynn Brain, and Jeanette Norton), June 2016 – May 2020 (\$500,000), Co-PI.
3. Utah Experiment Station Seed Grant – Measuring the Environmental Costs of Hypocrisy, May 2012, Utah State University (\$19,677), PI.
4. Intervening to Encourage Residential Water Conservation in Utah: Follow-up Survey of SPARC Households (with David Rosenberg and Joanna Endter-Wada), September 2011, Western Water Association, University of Colorado (\$12,800), Co-PI.
5. Utah Experiment Station Seed Grant – Bioeconomic Model of the Great Salt Lake Watershed, June 2010, Utah State University (\$16,000), PI.
6. Utah Experiment Station Seed Grant – Bridging the Climate-Change Debate among Economists: Sequestration, Global Carbon Permits, and International Trade, June 2010, Utah State University (\$16,000), Co-PI.



7. Seed Program to Advance Research Collaborations (SPARC), Utah State University – Intervening to Encourage Water Conservation: Developing an Interdisciplinary Urban Water Conservation Research Program at USU (with David Rosenberg and Joanna Endter-Wada), June 2009, Utah State University (\$35,000), Co-PI.
8. U.S. EPA Targeted Watershed Grant Program – Tri-State Bear River Basin Watershed Project (coordinated by Dr. Nancy Mesner, Water Quality Specialist, College of Natural Resources and Jack Barnett, Director of the Bear River Commission), January 2004 – September 2009, Utah State University (\$750,000), Co-PI.
9. Fulbright Scholars Award – Lecturing/Research in Botswana, Africa (University of Botswana), 2007-2008 (Award No. 07-12043 for \$89,000), PI.
10. Water Initiative Grant Program - Policy Decision Modeling for Water Quality Improvement (with Terry Glover), January 2005, Utah State University (\$8,100), Co-PI.
11. Experimental Economics Research Fund, Department of Economics and Finance, University of Wyoming – A Bayesian Examination of Anchoring Bias and Cheap Talk in Contingent Valuation Studies (with David Aadland and Owen R. Phillips), July 2005, University of Wyoming (\$6,000), Co-PI.
12. Division of Environmental Services, City of Logan – Cache County Household Recycling and Solid Waste Study (with Douglas Jackson-Smith and Sandy Marquart-Pyatt), February 2005, Utah State University (\$17,250), Co-PI.
13. Water Initiative Grant Program – Contributing to Drought Management Through Understanding Factors Influencing Human Conservation Behavior (with Joanna Endter-Wada, Peggy Petrzela, and Theresa Selfa), February 2004, Utah State University (\$15,000), Co-PI.
14. National Science Foundation (NSF) Grant #0108159 – Household Valuation of Curbside Recycling (with David Aadland), September 2001-2002, Utah State University (\$125,000), Co-PI.
15. Division of Environmental Services, City of Logan – Cache County Landfill Study (with Therese Grijalva and Douglas Jackson-Smith), August 2002, Utah State University (\$32,000), Co-PI.
16. Division of Environmental Services, City of Logan – Logan Recycling Survey (with Therese Grijalva, Edwin Stafford, and Cathy Hartman), April 2002, Utah State University (\$2,000), Co-PI.
17. New Faculty Research Grant – Public Disclosure Programs and Firm Environmental Performance: Is There an ‘Information Echo Effect’ in the Toxic Release Inventory?, 2002, Utah State University (\$11,000), PI.

18. Utah Department of Environmental Quality Small Projects Grant – Used Oil Recycling Project (with David Aadland), Division of Solid and Hazardous Waste, November 2001, Utah State University (\$4,500), PI.

## **OTHER RESEARCH FELLOWSHIPS AND AWARDS**

Huntsman School of Business Researcher of the Year Award, 2008, Utah State University.  
Finalist for Bill E. Robins Faculty Researcher of the Year Award, 2008, Utah State University.  
Department of Economics Researcher of the Year Award, 2004, 2006, and 2007, Utah State University.  
Research, Scholarship, and Professional Growth (RSPG) Awards (5), 1996 -1999, Weber State University.  
Summer Research Awards, John B. Goddard School of Business and Economics (3), 1997 – 2000, Weber State University.  
PacifiCorp’s Earth Steward’s Award, 1999, Weber State University.  
Departmental Teaching Award for Graduate Teaching Fellows, 1995, University of Oregon.  
Kleinsorge Summer Research Fellowship, 1993 and 1994. University of Oregon.  
Dean's Award for Enterprising Students, 1981. University of Michigan.  
Vice-President's Award for Outstanding Students, 1981. University of Michigan.

## **PAPER PRESENTATIONS**

### *International Conferences and Symposia*

1. “Mitigating the Adverse Scale Effects Associated with Daily Driving Restrictions,” **Western Economic Association International, 92<sup>nd</sup> Annual Conference**, Chaired Session on Mobile Sources of Pollution, San Diego, CA, June 26, 2017.
2. “Conservation Clubs,” **American Water Resources Association, Spring Specialty Conference**, Los Angeles, California, March 31, 2015.
3. “Heterogeneous Rebound Effects Due to Locational Choices,” **Western Economic Association International, 89<sup>th</sup> Annual Conference**, Co-authored paper presented by graduate student Ryan Barnes, Denver, Colorado, June 28, 2014.
4. “Measuring the Environmental Cost of Hypocrisy,” **Western Economic Association International, 88<sup>th</sup> Annual Conference**, Chaired Session on Policy, Politics, and Hypocrisy, Seattle, Washington, June 30, 2013.
5. “Conservation Clubs,” **Western Economic Association International, 88<sup>th</sup> Annual Conference**, Seattle, Washington, June 29, 2013.

6. “Measuring the Environmental Cost of Hypocrisy,” **Association of Environmental and Resource Economists (AERE) Summer Conference, 13<sup>th</sup> Annual Meeting**, Chaired Session on Experiments, Banff, Alberta, Canada, June 7, 2013.
7. “An Invasive Species Subsidy Under Uncertainty,” **Western Regional Science Association, 52<sup>nd</sup> Annual Meeting**, Co-authored paper presented by graduate student Yanxu Liu, Santa Barbara, CA, February 26, 2013.
8. “Sharing the Surplus Generated from Non-cooperative Cost Sharing: The Case of Nonpoint Associations and Water Quality Trading,” **Western Economic Association International 85<sup>th</sup> Annual Conference**, Paper Presentation and Session Organizer. Session title: “New Frontiers in Nonpoint Pollution Control.” Portland, OR, July 1, 2010.
9. “GIS-based Estimation of Marginal Implicit Prices of Housing Amenities: The Case of High Ground and Stagnant Streams.” **Western Economic Association International 85<sup>th</sup> Annual Conference**, Co-authored paper presented by graduate student Shibashis Mukherjee, Portland, OR, June 30, 2010.
10. “Water Quality Trading in an Integrated Hydrologic Modeling Framework,” **American Water Resources Association 2009 Summer Specialty Conference: Adaptive Management of Water Resources II**, Snowbird, Utah, June 29, 2009.
11. “Compendium of Insights on the Value and Cost of Curbside Recycling,” **Utah Bioneers Conference 2006**, Utah State University, October 21, 2006.
12. "The Effect of Experience and Quantity-Based Pricing on the Valuation of a Curbside Recycling Program," **Solid Waste Association of North America (SWANA) Technical Symposium**, Logan, Utah, February 7, 2006.
13. "Curbside Recycling: Waste Resource or Waste of Resources?" **Waste – The Social Context**, Edmonton, Alberta, Canada, May 12, 2005.
14. "Perspectives on Integrating Bio-Physical and Social Sciences for Sustaining Natural and Human Systems – Symposium", chaired by Terry Sharik, Head, Department of Environment and Society, Utah State University, **Society for Human Ecology, 20<sup>th</sup> Anniversary Conference**, Salt Lake City, Utah, October 14, 2005.
15. "Pollution Trading in the Bear River Basin," **Water in the West: Use, Abuse, and Scarcity, College of Natural Resources Annual NR Week Symposium, Utah State University**, October 12, 2005.
16. “A General Equilibrium Model of the Great Salt Lake Ecosystem – Regional Economy Interface,” **Utah State University Water Initiative’s 2004 Spring Runoff Conference**, March 25, 2004.

17. “Estimating Willingness to Pay for Curbside Recycling with Detection and Mitigation of Hypothetical Bias,” **Southern Economic Association Annual Meeting 2002**, New Orleans, Louisiana, November 26, 2002.
18. “Using GAMS and Excel to Simulate Natural Resource Problems in an Upper-Division Economics Course,” **Economics and the Classroom Conference**, Idaho State University, September 12, 2002.
19. “Active Learning Strategies for the College and University Economics Classroom, II--Service Learning and Economics: Developing Projects that Encourage Students to >Do= Economics,” Invited Session at the **American Economic Association Annual Meeting 2002**, Atlanta, Georgia, January 5, 2002.
20. “Reputation and the Control of Pollution,” **Western Agricultural Economics Association Annual Conference**, Utah State University, July 10, 2001.
21. “Poverty and Access to Health Care: An Academic Service Learning Project in Economics,” **Economics and the Classroom Conference**, Idaho State University, March 29, 2001.
22. “Winners and Losers in a World with Global Warming: Noncooperation, Altruism, and Social Welfare,” **Pacific Northwest Conference on Environmental and Resource Economics**, May 21-22, 1999, Eugene Oregon.
23. “The Effects of Environmental Regulation on Small-Firm Emissions and Profitability: The Cases of Product and Process Offsets,” **Western Economic Association International Conference**, July 6-10, 1999, San Diego, California, Session 15, July 7.
24. “New Evidence on Household Valuation of Curbside Recycling,” **Utah Academy of Sciences, Arts, and Letters**, Social Sciences Division, Brigham Young University, April 9, 1999.
25. “More Evidence on the Role of Secondary Education in the Development of Lower-Income Countries: Wishful Thinking or Useful Knowledge?,” **Southern Economic Association Annual Conference**, Session 188N, November 21-23, 1997, Atlanta, GA.
26. “Extreme Asymmetric Externalities and Non-Cooperative Behavior: The Case of Moderate Global Warming,” **Western Economic Association International Conference**, Session 113, July 11, 1997, Seattle, Washington.
27. “Transboundary Pollution Control in Federal Systems,” **Economic Integration in Transition**, Athens, Greece, August, 1996.

### *Workshops and Professional Meetings*

1. “Optimal Preventative Investment to Control Episodic Air Pollution,” **Environmental and Resource Economics Workshop 2016**, University of Colorado, Co-authored paper presented by graduate student Ramjee Acharya, Vail, Colorado, September 11, 2016.
2. “Conservation Clubs,” **Environmental and Resource Economics Workshop 2012**, University of Colorado, October 6, 2012.
3. “Measuring the Environmental Cost of Hypocrisy,” **Camp Resources XIX**, North Carolina State University, Co-authored paper presented by graduate student Elliot Anderson, Wrightsville Beach, North Carolina, August 7, 2012.
4. “A Bayesian Examination of the Interaction Between Anchoring Bias and Cheap Talk in Contingent Valuation Studies,” **Environmental and Resource Economics Workshop 2006**, University of Colorado, September 23, 2006.
5. "A Bioeconomic Model of the Great Salt Lake Watershed," **W1133 Annual Meetings**, Salt Lake City, February 14, 2005.
6. “An Efficient Mechanism to Control Correlated Externalities: Redistributive Transfers and Coexistence of Regional and Global Pollution Permit Markets,” **Camp Resources XI, North Carolina State University**, August 19, 2003.
7. “Public Disclosure Programs and Firm Environmental Performance: Is There an ‘Information-Echo Effect’ in the Toxic Release Inventory?” **Environmental and Resource Economics Workshop 2002**, University of Colorado, July 15, 2002.
8. “Detection and Mitigation of Hypothetical Bias in Contingent Valuation with an Application to Curbside Recycling,” **Environmental and Resource Economics Workshop 2001**, University of Colorado, July 16, 2001.
9. “Poverty and Access to Health Care: An Academic Service Learning Project in Economics,” **Putting the Invisible Hand to Work: Concepts and Models for Service-Learning in Economics Workshop** at Denison University, Ohio, September 16, 2000.
10. “How Effective and Efficient Can the Kyoto Protocol Be in Controlling Global Carbon Emissions,” **Environmental and Resource Economics Workshop 2000**, University of Colorado, July 17, 2000.
11. “Reputation and the Control of Pollution,” **Environmental and Resource Economics Workshop 2000**, University of Colorado, July 18, 2000.

### *Departmental/College Seminars*

1. "Conservation Clubs," **Department of Applied Economics, Utah State University**, Logan, Utah, November 3, 2010.
2. "Sharing the Surplus Generated from Noncooperative Cost Sharing: The Case of Nonpoint Associations and Water Quality Trading," **Department of Applied Economics, Utah State University**, Logan, Utah, October 21, 2009.
3. "Policy Issues, Needs, and Gaps," **Potential Carbon Markets and Utah Agriculture: An Assessment of Opportunities**, College of Natural Resources, Utah State University, Logan, Utah, October 8, 2009.
4. "Communalism versus the Incentive to Free-Ride: Experimental Results from Economically Emergent Africa," **Department of Economics, Utah State University**, Logan, Utah, September 24, 2008.
5. "Communalism versus the Incentive to Free-Ride: Experimental Results from Economically Emergent Africa," **Faculty of Social Sciences, University of Botswana**, Gaborone, March 3, 2008.
6. "A Bayesian Examination of Information and Uncertainty in Contingent Valuation: Cross-Cultural Comparison Between the U.S. and Botswana," **Faculty of Social Sciences, University of Botswana**, Gaborone, October 24, 2007.
7. "A Bayesian Examination of the Interaction Between Anchoring Bias and Cheap Talk in Contingent Valuation Studies," **Department of Economics, Utah State University**, Logan, Utah, October 4, 2006.
8. "The Folly of Dillydally," **Department of Economics, Utah State University**, Logan, Utah, November 3, 2004.
9. "A Bioeconomic Model of the Great Salt Lake Watershed," **Environment and Society Departmental Seminar Series, College of Natural Resources, Utah State University**, October 27, 2004.
10. "Curbside Recycling: Waste Resource or Waste of Resources?" **Department of Economics, Central Florida University**, Orlando, Florida, January 9, 2004.
11. "Curbside Recycling: Waste Resource or Waste of Resources?" **Department of Economics, Utah State University**, Logan, Utah, December 3, 2003.
12. "Research in the Control of Transboundary Pollution and Non-Market Valuation," **Environment and Society Departmental Seminar Series, College of Natural Resources, Utah State University**, April 11, 2003.

13. “The Net Benefits of Curbside Recycling,” **No Free Lunch Seminar, Department of Economics, Utah State University**, October 21, 2002.
14. “A Willingness-to-Pay Paradox,” **No Free Lunch Seminar, Department of Economics, Utah State University**, March 11, 2002.
15. “An Equitable, Efficient, and Implementable Scheme to Control Global Carbon Dioxide Emissions,” **Department of Economics, Utah State University**, Logan, Utah, October 31, 2001.
16. “Is There an ‘Information Echo Effect’ in the Toxic Release Inventory?,” **No Free Lunch Seminar, Department of Economics, Utah State University**, September 10, 2001.
17. “Household Valuation of Curbside Recycling With Detection and Mitigation of Hypothetical Bias,” **Department of Economics, Utah State University**, Logan, Utah, January 12, 2001, co-presented with David M. Aadland.
18. “Compendium of Research on the Provision of Public Goods: Federalism, Decentralized Leadership and an Application,” **Department of Economics, Utah State University**, Logan, Utah, September 11, 2000.
19. “Pure Public Goods and Income Redistribution in a Federation with Imperfect Labor Mobility,” **Department of Economics, University of Missouri - Kansas City**, April 20, 2000.
20. “Pure Public Goods and Income Redistribution in a Federation with Imperfect Labor Mobility,” **Department of Economics, Macalester College**, February 4, 2000.
21. “Pure Public Goods and Income Redistribution in a Federation with Imperfect Labor Mobility,” **Department of Economics, University of Colorado**, January 27, 2000.
22. “Pure Public Goods and Income Redistribution in a Federation with Imperfect Labor Mobility,” **Eccles School of Business and Economics, Utah State University**, January 21, 2000.
23. “Equitable Carbon Emissions,” **John B. Goddard School of Business and Economics Seminar Series, Weber State University**, October 21, 1999.
24. “Applying the Cameron and James Model to Ordered Interval Data: The Case of Curbside Recycling in Ogden, Utah,” **John B. Goddard School of Business and Economics Seminar Series, Weber State University**, November 17, 1998.

25. “Asymmetric Externalities and Strategic Behavior: The Case of Moderate Global Warming,” **University of Oregon Seminar Series**, Department of Economics, December, 1995.

*Professional Groups/Advisory Boards/Government Agencies*

1. “A Bioeconomic Model of the Great Salt Lake Watershed”. **Boston Fusion**, March 9, 2017.
2. “Controlling Red Air Days With a Seasonal Gas Tax: The Case of Cache County, Utah”. **Cache Clean Air Consortium and Utah State University Sustainability Council**, February 16, 2017.
3. “Report to Logan City, Utah on Proposed Wastewater Treatment Project”. Submitted to **Carollo Engineers**, September 11, 2015.
4. “Follow-Up Report on U.S. EPA Targeted Watershed Grant – Tri-State Bear River Basin Watershed Project,” Conference call with various regional representatives and Washington, D.C. office, September 17, 2009.
5. “Final Report on U.S. EPA Targeted Watershed Grant – Tri-State Bear River Basin Watershed Project,” **EPA Regional Headquarters**, Denver, CO, June 22, 2009.
6. "Progress Report on U.S. EPA Targeted Watershed Grant – Tri-State Bear River Basin Watershed Project," **Utah Water Quality Task Force**, Department of Natural Resources, Salt Lake City, November 20, 2006.
7. "Progress Report on U.S. EPA Targeted Watershed Grant – Tri-State Bear River Basin Watershed Project," **Utah Water Quality Task Force**, Department of Natural Resources, Salt Lake City, October 31, 2005.
8. "Progress Report on U.S. EPA Targeted Watershed Grant – Tri-State Bear River Basin Watershed Project," **Bear River Commission**, Department of Natural Resources, Salt Lake City, November 1, 2005.
9. “Final Report on the Cache County Landfill Siting Study,” **Technical Advisory Review Board**, Logan, July 31, 2003.
10. “Household Valuation of a Pilot Curbside Recycling Program: Participants, Non-Participants, and the Non-Targeted,” **Solid Waste Advisory Board**, Cache County, December 16, 2002.
11. “Un-Recovered Used Oil by Do-It-Yourselfers: Preliminary Results,” **Used Oil Recycling Project, Department of Environmental Quality, Division of Solid and Hazardous Waste**, Salt Lake City, Utah, January 24, 2002.



## **STUDENT MENTORING**

### ***PhD Students***

1. Muyang Ge's PhD Dissertation Committee Member, Department of Applied Economics, Utah State University, 2016 – present.
2. Ramjee Achariya's PhD Dissertation Committee Chair, Department of Applied Economics, Utah State University, 2013 – present.
3. Dong-Hun Go's PhD Dissertation Committee Member, Department of Applied Economics, Utah State University, 2014 – present.
4. Tae Hoo Kim's PhD Dissertation Committee Member, Department of Applied Economics, Utah State University, 2014 – 2016.
5. Yanxu Liu's PhD Dissertation Committee Chair, Department of Applied Economics, Utah State University, 2010 – 2013.
6. Augustina Odame's PhD Dissertation Committee Co-Chair, Department of Applied Economics, Utah State University, 2011 – 2015.
7. Liu Lu's PhD Dissertation Committee Member, Department of Applied Economics, Utah State University, 2007 – 2010.
8. Amrita Ghosh Dastidar's PhD Dissertation Committee Member, Department of Applied Economics, Utah State University, 2007 – 2013.
9. Abdelhaleem Khader's PhD Dissertation Committee Member, Department of Civil and Environmental Engineering, Utah State University, 2008 – 2012.
10. Anurag Srivastava's PhD Dissertation Committee Member, Department of Civil and Environmental Engineering, Utah State University, 2009 – 2012.
11. Yuexia Zhu's PhD Dissertation Committee Member, Department of Economics, Utah State University, 2004 – 2007.
12. Aklilu Tesfamichael's PhD Dissertation Committee Member, Department of Civil and Environmental Engineering, Utah State University, 2002 – 2005.
13. Ibrahim Khadam's PhD Dissertation Committee Member, Department of Civil and Environmental Engineering, Utah State University, 2002 – 2005.

14. Leon Baskedas' PhD Dissertation Committee Member, Department of Civil and Environmental Engineering, Utah State University, 2003 – 2007.
15. Jeremy Kidd's PhD Dissertation Committee Member, Department of Economics, Utah State University, 2003 – 2007.

### *Masters Students*

1. Kristian Mortenson's Supervisory Committee Member, Master of Science in Applied Economics, Department of Economics, Utah State University, 2001 – 2002.
2. David Garbett's Supervisory Committee Member, Master of Science in Applied Economics, Department of Economics, Utah State University, 2002 – 2003.
3. Jon Hibschan's Supervisory Committee Chair, Master of Science in Applied Economics, Department of Economics, Utah State University, 2003 – 2004.
4. Eric Coleman's Supervisory Committee Member, Master of Science in Applied Economics, Department of Economics, Utah State University, 2003 – 2004.
5. Kristina Galloway's Supervisory Committee Member, Master of Science in Applied Economics, Department of Economics, Utah State University, 2003 – 2004.
6. Yuya Sasaki's Supervisory Committee Chair, Master of Science in Applied Economics, Department of Economics, Utah State University, 2003 – 2005.
7. Yuya Sasaki's Supervisory Committee Member, Master of Science in Geography, Department of Geography, Utah State University, 2003 – 2004.
8. Jeremy Sage's Supervisory Committee Member, Master of Science in Natural Resources, Department of Environment and Behavior, Utah State University, 2003 – 2005.
9. Yinghui Wang's Supervisory Committee Member, Master of Science in Applied Economics, Department of Economics, Utah State University, 2003 – 2004.
10. Gretchen King's Supervisory Committee Member, Master of Science in Applied Economics, Department of Economics, Utah State University, 2004 – 2006.
11. Jason Whitehead's Supervisory Committee Chair, Masters of Science in Applied Economics, Department of Economics, Utah State University, 2005 – 2006.
12. Jordan Carroll-Larson's Supervisory Committee Chair, Masters of Science in Applied Economics, Department of Economics, Utah State University, 2005 – 2007.

13. D. Scott Bosworth's Supervisory Committee Member, Master of Science in Theoretical Economics, Department of Economics, Utah State University, 2005 – 2006.
14. Wandnery Fuertes' Supervisory Committee Member, Master of Science in Applied Economics, Department of Economics, Utah State University, 2006 – 2007.
15. Guy Ballard's Supervisory Committee Chair, Master of Science in Applied Economics, Department of Applied Economics, Utah State University, 2008 – 2010.
16. Denis Peralta's Supervisory Committee Chair, Master of Science in Applied Economics, Department of Applied Economics, Utah State University, 2008 – 2010.
17. Austin Coover's Supervisory Committee Chair, Master of Science in Economics, Department of Economics, Utah State University, 2008 – 2010.
18. Jean Dominique Gumirakiza's Supervisory Committee Chair, Master of Science in Applied Economics, Department of Applied Economics, Utah State University, 2008 – 2010.
19. Shibashis Mukherjee's Supervisory Committee Chair, Master of Science in Economics, Department of Economics and Finance, Utah State University, 2008 – 2010.
20. Anurag Srivastava's Supervisory Committee Chair, Masters of Science in Applied Economics, Department of Applied Economics, Utah State University, 2009 – 2010.
21. Anvar Suyundikov's Supervisory Committee Chair, Masters of Science in Applied Economics, Department of Applied Economics, Utah State University, 2009 – 2011.
22. Ed Kotter's Supervisory Committee Outside Member, Masters of Science in Sociology, Department of Sociology, Utah State University, 2010 – 2012.
23. Jarod Dunn's Supervisory Committee Chair, Masters of Science in Applied Economics, Department of Applied Economics, Utah State University, 2010 – 2012.
24. Nelissa Nybar's Supervisory Committee Member, Masters of Science in Applied Economics, Department of Applied Economics, Utah State University, 2010 – 2011.
25. Voravee Chakreeyarat's Supervisory Committee Chair, Masters of Science in Economics and Statistics, Department of Applied Economics, Utah State University, 2010 – 2011.
26. Clinton Kennedy's Supervisory Committee Member, IMBA, Royal Agricultural College and Department of Applied Economics, Utah State University, 2011 – 2012.
27. Elliot Anderson's Supervisory Committee Chair, Masters of Science in Applied Economics, Department of Applied Economics, Utah State University, 2011 – 2012.

28. Wei Bao's Supervisory Committee Member, Masters of Science in Economics and Statistics, Department of Applied Economics, Utah State University, 2012 – 2013.
29. Chris Anazia's Supervisory Committee Member, Masters of Science in Applied Economics, Department of Applied Economics, Utah State University, 2011 – 2012.
30. Leo Moscardini's Supervisory Committee Chair, Masters of Science in Applied Economics, Department of Applied Economics, Utah State University, 2013 – 2015.
31. Delphine Faigenbaum's Supervisory Committee Member, Masters of Science in Applied Economics, Department of Applied Economics, Utah State University, 2014 – present.

### ***Bachelors Students***

Nametso Koloi's Honor's Thesis Supervisor, Bachelor of Arts, Department of Economics, University of Botswana, Gaborone, Botswana, 2007-2008.

### ***Research Assistantship Advisor***

Nitesh Saha, PhD student, Summer Research Assistant, 2002.  
 Yuexia Zhu, PhD student, Research Assistant, Fall 2002 – 2004.  
 Shumit Vatsal, Masters student, Research Assistant, Fall 2003 – 2005.  
 Jason Whitehead, Masters student, Research Assistant, Spring 2005 – 2006.  
 Chad Reid, undergraduate student, Research Assistant, Spring 2006.  
 Liu Lu, PhD student, Research Assistant, Fall 2006 – 2008.  
 Aerwadee Ubolsook, PhD student, Research Assistant, Fall 2006 – 2008.  
 Guy Ballard, Masters student, Research Assistant, Fall 2008 – 2009.  
 Devalina Chatterjee, PhD student, Research Assistant, Fall 2008 – 2009.  
 Anvar Suyundikov, Masters student, Research Assistant, Fall 2009 – Fall 2010.  
 Jarod Dunn, Masters student, Research Assistant, Fall 2010 – Spring 2012.  
 Elliot Anderson, Masters student, Research Assistant, Fall 2011 – 2012.  
 Carlos Silva, Masters student, Research Assistant, Fall 2012 – 2013.  
 Ramjee Acharya, PhD student, Research Assistant, Fall 2013 – present.

## **PROFESSIONAL SERVICE**

### ***Committee and Advisory Assignments***

Faculty Senate Executive Committee, Utah State University, 2018.  
 Faculty Senate Member, College of Agriculture and Applied Sciences, Utah State University, 2015 – 2018.  
 Faculty Evaluation Committee, Faculty Senate, Utah State University, 2012 – 2015.  
 Director of Graduate Programs, Department of Applied Economics, College of Agriculture, Utah State University, 2008 – 2012.  
 Ombudsman for Promotion and Tenure Review, College of Agriculture, 2005 – present, USU.

USU Library Advisory Council, 2005 – 2008, Utah State University.  
 Library Committee, College of Business, Chair, 2003 – 2008, Utah State University.  
 Natural Resource and Environmental Policy Program, College of Natural Resources, Affiliated  
 Faculty Member, 2001 – 2004, Utah State University.  
 Service-Learning Faculty Steering Committee Member, 2003 – 2007, Utah State University.  
 Hillel Association, Acting Faculty Advisor, 2002 – 2013, Utah State University.  
 President's Council Standing Committee - Environmental Issues, Faculty Member, 1996-2001,  
 Weber State University.  
 Research, Scholarship, Professional Growth Committee, 1997-1998, Weber State University.  
 Honors Faculty Advisory Council, 1998 - 2001, Weber State University.  
 Honors Director Search Committee, 1998, Weber State University.  
 Appointment, Promotion, Academic Freedom, and Tenure Committee, 1998 to 1999, Weber  
 State University.  
 Library Policy Advisory Committee, 1998 to 2001, Weber State University.  
 Teaching and Learning Assessment Committee, 2000 to 2001, Weber State University.  
 Holocaust Remembrance Week Organizing Committee, 1998 - 2001, Weber State University.  
 Women In Business Organizing Committee, 1999, John B. Goddard School of Business and  
 Economics, Weber State University.  
 Student Economic Association, Faculty Advisor, 1997 to 2001, Weber State University.

### ***Membership in Professional Organizations***

American Economic Association, 1995 – 1996, 2013 – 2014, 2015 – 2016.  
 Western Economic Association, 1997 – 1999, 2009 - 2014.  
 Association of Environmental and Resource Economists, 1999 - present.  
 Western Agricultural Economics Association, 2001-2003, 2012 – 2014.  
 Southern Economic Association, 2013-2014.

### ***Editorial Boards***

*Journal of Hydrology*, Associate Editor, 2007 – 2010.

### ***Manuscript Reviews***

*Journal of Public Economics*  
*Journal of Environ. Econ. & Mgmt.*  
*Resource and Energy Economics*  
*Energy Economics*  
*Journal of Ag. & Resource Economics*  
*Environment and Development Econ.*  
*Economic Development & Cultural Chg.*  
*International Tax & Public Finance*  
*Environment and Resource Econ.*  
*Agricultural and Resource Econ. Rev.*  
*Journal of Economic Education*

*Oxford Economic Papers*  
*International Economic Review*  
*Water Resources Research*  
*Society and Natural Resources*  
*Marine Resource Economics*  
*Journal of Third World Studies*  
*European Economic Review*  
*Amer. J. of Agric. Economics*  
*Journal of Applied Economics*  
*Ecological Economics*  
*J. of Econ Behavior and Organ.*

*Agric. Resource Econ. Review*  
*Contemporary Economic Policy*  
*Land Economics*

*J. of Economic Surveys*  
*J. of Assoc. of Environ. and Res. Economists*

## **VOLUNTEER ACTIVITIES**

Adult Literacy Volunteer, English Learning Center, Logan, Utah 2016.  
Board of Directors, Congregation Brith Sholem, Ogden, Utah, 2014 - present.  
Parent Board Member, North. Utah Select Lax/Logan High Lax, Utah 2013 – present.  
Adult Literacy Volunteer, Bridgerland Literacy Program, Logan, Utah 2013 – present.  
Site Coordinator, Bear River Charter School, Logan, Utah 2010 – 2011.  
President, Edith Bowen Laboratory School PTA, Logan, Utah 2006 – 2007.  
President-Elect, Edith Bowen Laboratory School PTA, Logan, Utah 2005 – 2006.  
Volunteer Coordinator, PTA Board Member, Edith Bowen Lab School, Logan, Utah 2004  
Read Aloud Volunteer Reader, Edith Bowen Laboratory School, Logan, Utah 2002 – 2006.  
First Amend. School Parent Comm. Member, Edith Bowen Lab School, Logan, Utah, 2003.  
Citizens for the Preservation of Logan Neighborhoods, Member, 2003 - 2004.  
Northern Utah Recycling Association, Ogden, Utah, 1997.  
Board of Directors, Congregation Brith Sholem, Ogden, Utah, 1997 - 2001.  
Teacher's Assistant, Brith Sholem Religious School, Ogden, Utah, 1998 - present.  
Utah Humanities Council, Ogden, Utah, 1998 -1999.  
Strawboss, The Eugene Growers' Market, Eugene, Oregon, 1995 -1996.  
Mentor, Jefferson Middle School, Eugene, Oregon, 1994 -1996.  
Parents' Night Out Volunteer, Easter Seals, Eugene, Oregon, 1993-1996.  
Economics Representative to Graduate Teaching Fellows Fed., University of Oregon, 1994 - 95.

## REFERENCES

*Dr. John Gilbert*

Professor of Economics  
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