

CURRICULUM VITAE
(August 1, 2012)

PERSONAL INFORMATION:

Emilson Caputo Delfino Silva
Professor and CAIP Chair
Department of Marketing, Business, Economics & Law
Alberta School of Business
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University of Alberta
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CITIZENSHIP:

Brazil and United States of America

EDUCATIONAL RECORD:

PhD, 1993, University of Illinois at Urbana-Champaign; Fields: Public Economics, Mathematical Economics, Development Economics and International Economics.

MS, 1988, University of Illinois at Urbana-Champaign; Field: Development Economics.

BS, 1986, Universidade de Brasília, Brazil; Economics.

Dissertation: “Three Essays on the Optimal Provision of Excludable Public Goods under Costly Exclusion.”

Current Areas of Interest: Public Economics, Environmental Economics, Industrial Organization, Development Economics and International Economics.

TEACHING AND PROFESSIONAL EXPERIENCE:

Academic Positions:

July 1, 2012 – Full Professor and CAIP Chair, Department of Marketing, Business, Economics & Law, University of Alberta

July 15, 2006 – June 30, 2012: Full Professor and Ph.D. Director, School of Economics, Georgia Institute of Technology

July 1, 2005 – June 30, 2006: Full Professor and Chair, Department of Economics, Tulane University.

July 1, 2000 – June 30, 2005: Associate Professor and Graduate Program Director, Department of Economics, Tulane University.

July 1, 2003 – May 31, 2004 : Associate Professor (Professor Adjunto), Mestrado em Economia de Empresas, Universidade Católica de Brasília.

July 1, 1999 – June 30, 2000: Assistant Professor, Department of Economics, Tulane University.

Fall 1993 - Spring 1999: Assistant Professor, Department of Economics, University of Oregon.

Visiting Positions:

May – June 2012: Visiting Professor, Departamento de Economia, Universidade de Brasilia, Brazil.

July 2009: Visiting Scholar, Department of Economics, University of Calgary, Canada.

August – September, 2008: Visiting Fellow, Economics Program, Research School of Social Sciences, Australian National University, Canberra, Australia

November – December, 2005: Visiting Professor, Georgia State University, Atlanta, GA.

June, 2002: Visiting Professor, Universidade Católica de Brasília, Brasília, D.F., Brazil

August 1997, 1998, 2001; June 1999, 2000; July, 2002: Visiting Professor, Aomori Public College, Aomori City, Japan.

April 1996, April 1997: Visiting Scholar, Department of Economics, Keele University, Keele, UK

Summer 1994, 1995: Visiting Scholar, Federalism Research Centre, Australian National University, Canberra, Australia.

Consulting Experience:

January – December, 2005 –: Senior Consultant, World Bank, Washington, DC.

February, 2002: Consultant, Organisation for Economic Co-operation and Development (OECD), Paris.

July 1999, 2001: Consultant, World Bank, Washington, DC.

PUBLICATIONS IN PEER REVIEWED JOURNALS:

33. “Efficient International Environmental Agreements for Correlated Transnational Pollutants in the Presence of Free Trade of Goods and International Transfers,” *Strategic Behavior and the Environment*, 1, 175-197, 2011 (with Xie Zhu).

32. “Matching Grants, Income Redistribution and Decentralized Leadership,” *International Tax and Public Finance*, 18, 322-336, 2011 (with Arthur J. Caplan)

31. “What Causes Intentional Homicide?,” *Journal of International Development*, DOI: 10.1002/jid.1764, 2011 (with Paulo Loureiro)

30. “Does Violence Deter Investment and Hinder Economic Growth?,” *The Brazilian Review of Econometrics*, forthcoming, 2011 (with Paulo Loureiro)

29. “Equitable and Efficient Federal Structures with Interregional Redistribution, Interregional Spillovers and Regional Attachment of Heterogeneous Labor,” *Journal of Public Economic Theory*, 12, 323-343, 2010 (with Naoto Aoyama).

28. “Interregional Competition, Spillovers and Attachment in a Federation,” *Journal of Urban Economics*, 67, 219-225, 2010 (with Chikara Yamaguchi).

27. “Emissions Trading of Global and Local Pollutants, Pollution Havens and Free Riding,” *Journal of Environmental Economics and Management*, 58, 169-182, 2009 (with Xie Zhu).

26. "Interregional Redistribution as a Cure to the Soft Budget Syndrome in Federations," *International Tax and Public Finance* 16, 43-58, 2009 (with Nobuo Akai).
25. "Correlated Pollutants, Interregional Redistribution and Labor Attachment in a Federation," *Environmental and Resource Economics* 41, 111-131, 2008 (with Naoto Aoyama).
24. "Global Trading of Carbon Dioxide Permits with Noncompliant Polluters," *International Tax and Public Finance* 15, 430-459, 2008 (with Xie Zhu).
23. "O Brilho da Bandeira Branca: Concorrência no Mercado de Combustíveis no Brasil," *Planejamento e Políticas Públicas* 31, 37-65, 2008 (with Mariana R. Pinto)
22. "On the Efficiency of a Global Market for Carbon Dioxide Permits: Type of Externality and Timing of Policymaking," *Economics Letters* 100, 213-216, 2008 (with Xie Zhu).
21. "Optimal Control of Acid Rain in China and Japan: A Game-Theoretic Analysis," *Regional Science and Urban Economics* 37, 100-120, 2007 (with Yoko Nagase).
20. "An Equitable, Efficient and Implementable International Scheme to Control Carbon Dioxide Emissions," *International Tax and Public Finance* 14, 263-279, 2007 (with Arthur J. Caplan).
19. "Crime and Punishment, and Corruption: Who Needs "Untouchables"?", *Journal of Public Economic Theory* 9, 69-87, 2007 (with Charles M. Kahn and Xie Zhu)
18. "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, 68-82, 2005 (with Arthur J. Caplan).
17. "An 'Ideal Kyoto Protocol': Redistributive Transfers, Emissions Trading and Global Participation," *Oxford Economic Papers*, 55, 216-234, 2003 (with Arthur J. Caplan and Richard C. Cornes).
16. "Public Good Mix in a Federation with Incomplete Information," *Journal of Public Economic Theory*, 5, 381-397, 2003 (with Richard C. Cornes).
15. "Local Public Goods, Inter-Regional Transfers and Private Information," *The European Economic Review*, 46, 329-356, 2002 (with Richard C. Cornes).
14. "Optimal Design of Performance Based Rewards in Tax Administration," *Brazilian Journal of Business Economics*, 2, 9-22, 2002.
13. "Performance-Based Wages in Tax Collection: The Brazilian Tax Collection Reform and Its Effects," *The Economic Journal*, 111, 188-205, 2001 (with Charles M. Kahn and James Ziliak).
12. "Optimal Control of Acid Rain in a Federation with Decentralized Leadership and Information," *Journal of Environmental Economics and Management*, 40, 164-180, 2000 (with Yoko Nagase).
11. "Pure Public Goods and Income Redistribution in a Federation with Decentralized Leadership and Imperfect Labor Mobility," *Journal of Public Economics*, 77, 265-284, 2000 (with Arthur J. Caplan and Richard C. Cornes).
10. "Local Public Goods, Risk Sharing and Private Information in Federal Systems," *Journal of Urban Economics* 47, 39-60, 2000 (with Richard C. Cornes).
9. "Rotten Kids, Purity and Perfection," *Journal of Political Economy* 107, 1034-1040, 1999 (with Richard C. Cornes).

8. "Federal Acid Rain Games," *Journal of Urban Economics* 46, 25-52, 1999 (with Arthur J. Caplan).
7. "Winners and Losers in a World with Global Warming: Noncooperation, Altruism and Social Welfare," *Journal of Environmental Economics and Management* 37, 256-271, 1999 (with Arthur J. Caplan and Christopher J. Ellis).
6. "Sustainable Clubs under Variable Participation," *The Brazilian Review of Econometrics*, 19 (2), 1999 (with Flávio M. Menezes).
5. "British Bus Deregulation: Competition and Demand Coordination," *Journal of Urban Economics* 43, 336-361, 1998 (with Christopher J. Ellis).
4. "Transboundary Pollution Control in Federal Systems," *Journal of Environmental Economics and Management* 34, 173-186, 1997 (with Arthur J. Caplan).
3. "Decentralized and Efficient Control of Transboundary Pollution in Federal Systems," *Journal of Environmental Economics and Management* 32, 95-108, 1997.
2. "À-la-Carte or Smorgasbord: Multiproduct Clubs with Costly Exclusion," *Journal of Urban Economics* 41, 264-280, 1997.
1. "Exclusion and Moral Hazard: The Case of Identical Demand," *Journal of Public Economics* 52, 217-235, 1993 (with Charles M. Kahn).

PUBLICATIONS IN BOOKS:

2. "Equitable and Efficient International Schemes to Control Carbon Dioxide Emissions," in D. Nelson, ed. *The Political Economy of Policy Reform: Essays in Honor of J. Michael Finger*, Amsterdam, Elsevier, 2005 (with Arthur J. Caplan).
1. "Incentive Effects of Performance-Based Rewards in Tax Administration," in J. McLaren, ed. *Institutional Elements of Tax Design and Reform*, Washington, DC: World Bank, 2003.

WORK IN PROGRESS:

1. "Efficient Decentralized Policy Making in the Presence of Interregional Spillovers and Imperfect Labor Mobility," revise and resubmit, *Public Finance Analysis*, 2011 (with Naoto Aoyama).
2. "Prestige Clubs", revise and resubmit, *Economics of Governance*, 2012 (with Richard C. Cornes).
3. "Transboundary Pollution, Tax Competition and Redistribution in Federal Systems," under review (with Naoto Aoyama).
4. "Stable International Environmental Agreements for Correlated Transnational Pollutants," under review (with Xie Zhu).
5. "Terrorism and Counterterrorism: History Dependence, Spillovers and Coordination Failures," under review (with Joao R. Faria).
6. "Strategic Effects of Environmental Policy Commitments: Climate Change, Solar Radiation Management and Correlated Air Pollutants," (with Jingwen Qu).
7. "Spillovers, Equity and Bailouts in Federations," (with Xie Zhu).
8. "Anonymous Contributors," (with Richard C. Cornes).

9. "Altruistic Dictators: Voluntary Provision of Public Goods in Families" (with Richard C. Cornes and Xie Zhu).
10. "Necessary and Sufficient Conditions for the Rotten Kid Theorem" (with Naoto Aoyama, Richard C. Cornes and Xie Zhu).
11. "Optimal Environmental Policy Design and Enforcement: Incentives for Technological Innovation." (with Naoto Aoyama)
12. "Efficient and Equitable Hierarchical Federations," (with Naoto Aoyama).
13. "Foreign Direct Investment and Rural-Urban Migration in China," (with Li Zhu).

ORGANIZATION OF CONFERENCES:

2. "Recent Advances in Economics," International Conference, August 8th and 9th, 2003, Catholic University of Brasilia, Brasilia, Brazil (with Adolfo Sachsida).
1. "Crime, Corruption and Violence: Theory and Applications to Brazil and Latin America," April 4th and 5th, 2003, Tulane University, New Orleans, Louisiana.

INVITED PAPER PRESENTATIONS:

CONFERENCES:

49. "Correlated Transboundary Pollutants, Free Trade and Transfers: On the Efficiency and Stability of International Environmental Agreements," 4th World Congress of Environmental and Resource Economists, University du Québec et Montréal, Montréal, Canada, June 28 – July 2, 2010.
48. "Pivotal Players in Continental and Global Environmental Protocols: The Case of Canada," (with Xie Zhu), 17th Conference of the European Association of Environmental and Resource Economists, VU University Amsterdam, Amsterdam, June 24 – 27, 2009.
47. "Prestige Clubs," (with Richard Cornes), Public Economic Theory (PET) Workshop, "Public Economics: Theoretical and Experimental Approaches," Ecole Normale Supérieure, Lyon, June 22 – 24, 2009.
46. "Prestige Clubs," (with Richard Cornes), 10th International Meeting of the Association for Public Economic Theory, National University of Ireland, Galway, June 18 – 20, 2009.
45. "Pivotal Players in Continental and Global Environmental Protocols: The Case of Canada," (with Xie Zhu), XXX Meeting of the Brazilian Econometric Society, Bahia, Brazil, December 10 – 12, 2008.
44. "Interregional Competition Between Rawlsian Regional Governments in the Presence of Interregional Spillovers and Labor Attachment," (with Naoto Aoyama), XV Public Economics Meetings, University of Salamanca, Spain, February 7-8, 2008.
43. "Interregional Redistribution as a Cure to the Soft Budget Syndrome in Federations," (with Nobuo Akai), 63rd Congress of the International Institute of Public Finance (IIPF), University of Warwick, England, August 27-30, 2007.
42. "Emissions Trading of Global and Local Pollutants, Pollution Havens and Free Riding," (with Xie Zhu), 63rd Congress of the International Institute of Public Finance (IIPF), University of Warwick, England, August 27-30, 2007.

41. “Global Trading of Carbon Dioxide Permits with Noncompliant Polluters” (with Xie Zhu), 63rd Congress of the International Institute of Public Finance (IIPF), University of Warwick, England, August 27-30, 2007.
40. “Emissions Trading of Global and Local Pollutants, Pollution Havens and Free Riding,” (with Xie Zhu), 15th Annual Conference, European Association of Environmental and Resource Economists (EAERE), Thessaloniki, Greece, June 27-30, 2007.
39. “Global Trading of Carbon Dioxide Permits with Noncompliant Polluters” (with Xie Zhu), 15th Annual Conference, European Association of Environmental and Resource Economists (EAERE), Thessaloniki, Greece, June 27-30, 2007.
38. “Emissions Trading of Global and Local Pollutants, Pollution Havens and Free Riding,” (with Xie Zhu), 8th Annual Conference of the Association of Public Economic Theorists (APET), Nashville, USA, July 6-8, 2007.
37. “Interregional Redistribution as a Cure to the Soft Budget Syndrome in Federations,” (with Nobuo Akai), II Workshop on Fiscal Federalism, Institut d’Economia de Barcelona, Sevilla, Spain, June 21-22, 2007.
36. “Emissions Trading of Global and Local Pollutants, Pollution Havens and Free Riding,” (with Xie Zhu), XXVIII Meeting of the Brazilian Econometric Society, Bahia, Brazil, December 6 – 8, 2006.
35. “Tax Reform: Changing the Way Taxes are Collected or Managed by the Governments in the Hemisphere,” Western Hemisphere Economic Officers Conference, US State Department, New Orleans, November 30 – December 1, 2006.
34. “Global Trading of Carbon Dioxide Permits with Noncompliant Polluters,” (with Xie Zhu), 60th Congress of the International Institute of Public Finance, August 22-25, 2004, Milan, Italy.
33. “Interregional Competition, Spillovers and Attachment in a Federation,” (with Chikara Yamaguchi), XXXI Encontro Nacional de Economia (ANPEC), December 11th, 2003 Porto Seguro, Brazil.
32. “Global Trading of Carbon Dioxide Permits with Noncompliant Polluters,” (with Xie Zhu), IV International Colloquium Globalization, New Technologies and Economic Relations, December 4th, 2003, Brasilia, Brazil.
31. “Interregional Competition, Spillovers and Attachment in a Federation,” (with Chikara Yamaguchi), Conference “Recent Advances in Economics,” August 9th, 2003, Catholic University of Brasilia, Brasilia, Brazil.
30. “Crime and Punishment, and Corruption,” (with Charles M. Kahn), Conference “Crime, Corruption and Violence: Theory and Applications to Brazil and Latin America,” April 5th, 2003, Tulane University, New Orleans, Louisiana.
29. “An ‘Ideal Kyoto Protocol’: Redistributive Transfers, Emissions Trading and Global Participation,” (with Arthur J. Caplan and Richard C. Cornes), Midwest International Economic Association Meetings, October 18-20, 2002, Notre Dame University, South Bend, Indiana.
28. “Equitable and Efficient International Schemes to Control Carbon Dioxide Emissions,” (with Arthur J. Caplan), Latin American and Caribbean Economic Association Meetings, October 11-13, 2002, Madrid, Spain.
27. “Equitable and Efficient International Schemes to Control Carbon Dioxide Emissions,” (with Arthur J. Caplan), Murphy Institute Conference on the Political Economy of Policy Reform, November 9-10, 2001, Tulane University, New Orleans, LA.

26. "Optimal Control of Acid Rain in Japan and China: A Game-Theoretic Analysis," (with Yoko Nagase), Sixth Occasional California Workshop on Environmental and Resource Economics, October 25-26, 2001, University of California, Santa Barbara, CA.
25. "Optimal Control of Acid Rain in Japan and China: A Game-Theoretic Analysis," (with Yoko Nagase), Latin American and Caribbean Economic Association Meetings, October 18-20, 2001, Montevideo, Uruguay.
24. "How Effective and Efficient Can the Kyoto Protocol Be in Controlling Global Carbon Emissions?," (with Arthur J. Caplan and Richard C. Cornes), 2001 Far Eastern Meeting of the Econometric Society, July 20-22, 2001, Kobe, Japan.
23. "How Effective and Efficient Can the Kyoto Protocol Be in Controlling Global Carbon Emissions?," (with Arthur J. Caplan and Richard C. Cornes), Latin American and Caribbean Economic Association Meetings, October 12-14, 2000, Rio de Janeiro, Brazil.
22. "How Effective and Efficient Can the Kyoto Protocol Be in Controlling Global Carbon Emissions?," (with Arthur J. Caplan and Richard C. Cornes), Fifth Occasional California Workshop on Environmental and Resource Economics, May 5-6, 2000, University of California, Santa Barbara, CA.
21. "Regional Inequalities and the Political Economy of Migration in China," (with Li Zhu), The Political Economy of Migration, Murphy Institute, Tulane University, March 24-25, 2000, New Orleans, LA.
20. "Incentive Effects of Tax Administration Performance Indicators," Taxation Conference, Columbia University - World Bank, Columbia University, February 17 - 18, 2000, New York, NY.
19. "Public Good Mix in a Federation with Incomplete Information," (with Richard C. Cornes), Fiscal Competition and Federalism in Europe, Zentrum für Europäische Wirtschaftsforschung GmbH (ZEW), June 2-3, 1999, Mannheim, Germany.
18. "Pure Public Goods and Income Redistribution in a Federation with Decentralized Leadership and Imperfect Labor Mobility," (with Arthur J. Caplan and Richard C. Cornes), Fiscal Competition and Federalism in Europe, Zentrum für Europäische Wirtschaftsforschung GmbH (ZEW), June 2-3, 1999, Mannheim, Germany.
17. "Performance-Based Wages in Tax Collection: The Brazilian Tax Collection Reform and Its Effects," (with Charles M. Kahn and James P. Ziliak), Topics in the Design and Evaluation of Tax Policy and Administration, World Bank, January 12-13, 1999, Washington, DC.
16. "Optimal Control of Acid Rain in a Federation with Decentralized Leadership and Private Information," (with Yoko Nagase), Fourth Occasional Workshop on Environmental and Resource Economics, University of California, Santa Barbara, October 16 - 17, 1998, Santa Barbara, CA.
15. "Federal Public Goods, Interregional Transfers and Labor Mobility," (with Arthur J. Caplan and Richard C. Cornes), Summer Institute for Theoretical Economics (SITE) 1998, Stanford University, July 6-10, Stanford, CA.
14. "Optimal Control of Acid Rain in a Federation with Decentralized Leadership and Private Information," (with Yoko Nagase), Economic Integration Conference 1998, York University, May 28 - 31, Toronto, Canada.
13. "Rotten Kids, Purity and Perfection," (with Richard C. Cornes), Public Economic Theory Conference 1998, University of Alabama, May 28 - May 31, Tuscaloosa, AL.

12. "Recipes for Turnovers: Reluctant Contributors Become Good Samaritans," (with Richard C. Cornes), Public Economic Theory Conference 1998, University of Alabama, May 28 - May 31, Tuscaloosa, AL.
11. "Optimal Control of Acid Rain in a Federation with Decentralized Leadership and Private Information," (with Yoko Nagase), 53rd Congress of the *International Institute of Public Finance*, August 1997, Kyoto, Japan.
10. "Local Public Goods, Inter-Regional Transfers and Private Information," (with Richard C. Cornes), 52nd Congress of the *International Institute of Public Finance*, August 1996, Tel-Aviv, Israel.
9. "Optimal Provision of Rivalrous Public Goods with Costly Exclusion, Corruption and Endogenous Fines," (with Charles M. Kahn), 1996 Meeting of the *European Economic Association*, August 20-24, Istanbul, Turkey.
8. "Optimal Provision of Rivalrous Public Goods with Costly Exclusion, Corruption and Endogenous Fines," (with Charles M. Kahn), 1996 *Latin American Meeting of the Econometric Society*, August 5-9, Rio de Janeiro, Brazil.
7. "Optimal Provision of Rivalrous Public Goods with Costly Exclusion, Corruption and Endogenous Fines," (with Charles M. Kahn), 3rd International Meeting of the *Society for Social Choice and Welfare*, June 22-25, Maastricht, The Netherlands.
6. "Transfers Between Jurisdictions with Private Information: The Equity/Efficiency Tradeoff," (with Richard C. Cornes), *Royal Economic Society Conference*, April 1996, Swansea, United Kingdom.
5. "À-la-Carte or Smorgasbord: How Should We Provide Multiple Public Goods Under Costly Monitoring?," 1994 Australasian Meeting of the Econometric Society, University of New England, July 13-15, 1994, New South Wales, Australia.
4. "À-la-Carte or Smorgasbord: How Should We Provide Multiple Public Goods Under Costly Monitoring?," Summer Meetings of the *North American Econometric Society*, June 23-26, 1994, Quebec, Canada.
3. "Optimal Provision of Public Goods under Costly Exclusion and Corruption," (with Charles M. Kahn), Midwest Economics Association Meeting, April, 1993, Indianapolis, Indiana.
2. "Exclusion and Moral Hazard: The Case of Identical Demand," (with Charles M. Kahn), Midwest Mathematical Economics Meetings, Fall 1992, October, 1992, University of Pittsburgh, Pittsburgh, Pennsylvania.
1. "Exclusion and Moral Hazard: The Case of Identical Demand," (with Charles M. Kahn), 11th Latin American Meeting of the Econometric Society, September, 1992, Mexico City, Mexico.

SEMINARS:

43. "Correlated Transboundary Pollutants, Free Trade and Transfers: On the Efficiency and Stability of International Environmental Agreements," (with Xie Zhu), Department of Economics, University of Alberta, Edmonton, Canada, March 12, 2010.
42. "Correlated Transboundary Pollutants, Free Trade and Transfers: On the Efficiency and Stability of International Environmental Agreements," (with Xie Zhu), Departamento de Economia, Universidade de Brasília, Brazil, December 4, 2009.
41. "Mudança Climática e Chuva Ácida: Acordos Internacionais Eficientes e Estáveis," (with Xie Zhu), Mestrado em Economia, Universidade Federal da Paraíba, João Pessoa, Brazil, November 26, 2009.

40. “Chains of International Environmental Agreements to Mitigate Correlated Transboundary Pollutants,” (with Xie Zhu), Department of Economics, University of Calgary, Canada, July 8, 2009.
39. “Pivotal Players in Continental and Global Environmental Protocols: The Case of Canada,” (with Xie Zhu), Department of Economics, Georgia State University, Atlanta, April 8, 2009.
38. “Emissions Trading of Global and Local Pollutants, Pollution Havens and Free Riding,” (with Xie Zhu), Department of Economics, Monash University, Melbourne, Australia, September 8, 2008.
37. “Equitable and Efficient Federal Structures with Interregional Redistribution, Interregional Spillovers and Regional Attachment of Heterogeneous Labor,” (with Naoto Aoyama), Economics Program, Research School of Social Sciences, Australian National University, Australia, August 22, 2008.
36. “Equitable and Efficient Federal Structures with Interregional Redistribution, Interregional Spillovers and Regional Attachment of Heterogeneous Labor,” (with Naoto Aoyama), School of Economics, University of Queensland, Australia, August 15, 2008.
35. “Equitable and Efficient Federal Structures with Interregional Redistribution, Interregional Spillovers and Regional Attachment of Heterogeneous Labor,” (with Naoto Aoyama), Department of Economics, Georgia State University, January 10, 2008.
34. “Emissions Trading of Global and Local Pollutants, Pollution Havens and Free Riding,” (with Xie Zhu), Department of Economics, Georgia State University, February 14, 2007.
33. “Optimal Control of Acid Rain in China and Japan: A Game-Theoretic Analysis,” (with Yoko Nagase), Department of Economics, University of Alabama, November 18, 2005, Tuscaloosa, AL.
32. “Global Trading of Carbon Dioxide Permits with Noncompliant Polluters,” (with Xie Zhu), Department of Economics, Georgia State University, March 4, 2005, Atlanta, GA.
31. “Interregional Competition, Spillovers and Attachment in a Federation,” (with Chikara Yamaguchi), Department of Economics, Universidade de Brasilia, November 28, 2003, Brasilia, DF, Brazil.
30. “Crime and Punishment, and Corruption: Who Needs ‘Untouchables’?,” (with Charles M. Kahn), Department of Economics, Universidade de Brasilia, June 27, 2003, Brasilia, DF, Brazil.
29. “Crime and Punishment, and Corruption: Who Needs ‘Untouchables’?,” (with Charles M. Kahn), Department of Economics, Universidade Federal de Pernambuco, May, 29, 2003, Recife, PE, Brazil.
28. “An ‘Ideal Kyoto Protocol’: Redistributive Transfers, Emissions Trading and Global Participation,” (with Arthur J. Caplan and Richard C. Cornes), Department of Economics, Universidade Federal de Pernambuco, February 7, 2003, Recife, PE, Brazil.
27. “An ‘Ideal Kyoto Protocol’: Redistributive Transfers, Emissions Trading and Global Participation,” (with Arthur J. Caplan and Richard C. Cornes), Department of Economics, Universidade de São Paulo, December 9, 2002, São Paulo, SP, Brazil.
26. “Public Good Mix in a Federation with Incomplete Information,” (with Richard C. Cornes), Department of Economics, Kobe University of Commerce, July 17, 2002, Kobe, Japan.
25. “Crime and Punishment, and Corruption: Who Needs ‘Untouchables’?” (with Charles M. Kahn), Universidade Católica de Brasília, June 28, 2002, Brasília, D.F., Brazil.
24. “Optimal Control of Acid Rain in Japan and China: A Game-Theoretic Analysis,” (with Yoko Nagase), Department of Economics, University of Tennessee, September 21, 2001, Knoxville, TN.

23. "Optimal Control of Acid Rain in Japan and China: A Game-Theoretic Analysis," (with Yoko Nagase), School of Economics, Kwansai Gakuin University, July 19, 2001, Hyogo, Japan.
22. "Optimal Control of Acid Rain in Japan and China: A Game-Theoretic Analysis," (with Yoko Nagase), Department of Economics, Kobe University of Commerce, July 18, 2001, Kobe, Japan.
21. "Incentive Effects of Performance-Based Rewards in Tax Administration," Universidade de Brasília, October 11, 2000, Brasília, D.F., Brazil.
20. "How Effective and Efficient Can the Kyoto Protocol Be in Controlling Global Carbon Emissions?," (with Arthur J. Caplan and Richard C. Cornes), Universidade Católica de Brasília, October 10, 2000, Brasília, D.F., Brazil.
19. "Equitable and Efficient International Schemes to Control Carbon Dioxide Emissions," (with Arthur J. Caplan), University of Mississippi, September 15, 2000, University, MS.
18. "How Effective and Efficient Can the Kyoto Protocol Be in Controlling Global Carbon Emissions?," (with Arthur J. Caplan and Richard C. Cornes), and "Incentive Effects of Performance-Based Rewards in Tax Administration," School of Economics, Kwansai Gakuin University, June 23, 2000, Hyogo, Japan.
17. "Incentive Effects of Performance-Based Rewards in Tax Administration," Department of Economics, Kobe University of Commerce, June 9, 2000, Kobe, Japan.
16. "Incentive Effects of Performance-Based Rewards in Tax Administration," Institute of Social and Economic Research, Osaka University, June 7, 2000, Osaka, Japan.
15. "Incentive Compatible Performance Indicators for Tax and Customs Administrations," The World Bank, July 21, 1999, Washington, DC.
14. "Optimal Control of Acid Rain in a Federation with Decentralized Leadership and Private Information," (with Yoko Nagase), Graduate School of Economics and Management, Aomori Public College, June 25, 1999, Aomori, Japan.
13. "Optimal Control of Acid Rain in a Federation with Decentralized Leadership and Private Information," (with Yoko Nagase), Department of Economics, Kobe University of Commerce, June 9, 1999, Kobe, Japan.
12. "Pure Public Goods and Income Redistribution in a Federation with Decentralized Leadership and Imperfect Labor Mobility," (with Arthur J. Caplan and Richard C. Cornes). Department of Economics, Tulane University, December 12, 1998, New Orleans, Louisiana.
11. "Public Good Mix in a Federation with Incomplete Information," (with Richard C. Cornes). Department of Economics, Oregon State University, November 21, 1998, Corvallis, Oregon.
10. "Pure Public Goods and Income Redistribution in a Federation with Decentralized Leadership and Imperfect Labor Mobility," (with Arthur J. Caplan and Richard C. Cornes), Department of Economics, Kobe University of Commerce, August 25, 1998, Kobe, Japan.
9. "Recipes for Turnovers: Rotten Contributors Become Good Samaritans," (with Richard C. Cornes), Department of Economics, Iowa State University, March 5, 1998, Ames, Iowa.
8. "Crime and Punishment, and Corruption: Who Needs 'Untouchables'?" (with Charles M. Kahn). Department of Economics, University of Illinois, March 2, 1998, Champaign-Urbana, Illinois.
7. "Rotten Kids, Purity and Perfection," (with Richard C. Cornes), Universidade de Brasília, July 1997, Brasília, Brazil.

6. "Optimal Provision of Rivalrous Public Goods with Costly Exclusion, Corruption and Endogenous Fines," (with Charles M. Kahn), Department of Economics, University of Kent, April 30, 1996, Kent, UK.
5. "Optimal Provision of Rivalrous Public Goods with Costly Exclusion, Corruption and Endogenous Fines," (with Charles M. Kahn), Department of Economics, University of Dundee, April 26, 1996, UK.
4. "Transboundary Pollution and Migration in Federal Systems," Department of Economics, Australian National University, July 20, 1995, Canberra, Australia.
3. "Preemption and Demand Coordination in the Competitive Provision of Local Bus Services," (with Chris J. Ellis), Department of Economics, Australian National University, September 1, 1994, Canberra, Australia.
2. "Intergovernmental Externalities and Moral Hazard," at the Economic Modelling and Intergovernmental Relations Workshop, Federalism Research Centre, Australian National University, July 22, 1994, Canberra, Australia.
1. "À-la-Carte or Smorgasbord: How Should We Provide Multiple Public Goods Under Costly Monitoring?" Oregon State University, April 1994, Corvallis, Oregon.

COURSES TAUGHT OR CURRENTLY TEACHING AT GEORGIA TECH:

Spring 2012: Microeconomic Theory II (PhD level, ECON 7013)

Fall 2011: Environmental Economics I (PhD level, ECON 7102)

Spring 2011: Environmental Economics (Master level, ECON 6380); Microeconomic Theory II (PhD level, ECON 7013)

Spring 2010: Economics of Environment (Undergraduate level, ECON 4440); Game Theory (Undergraduate level, ECON 4813); Environmental Economics (Master level, ECON 6380)

Spring 2009: Economics of Environment (Undergraduate level, ECON 4440); Game Theory (Undergraduate level, ECON 4813); Environmental Economics (Master level, ECON 6380)

Summer 2008: Advanced Microeconomic Analysis (Undergraduate level; ECON 3110).

Spring 2008: Individual Research 21450 (Undergraduate level, ECON 4910); Environmental Economics (Master level, ECON 6380); Master's Thesis (Master level, ECON 7000); Special Problems 23997 (Master level, ECON 8990).

Fall 2007: Microeconomic Analysis (Master level; ECON 6106); Game Theory (Undergraduate level, ECON 4803).

Summer 2007: Public Economics (Undergraduate level; ECON 4460); Special Problems (Master level; ECON 8990).

Spring 2007: Development Economics (Master level; ECON 6360); Mathematical Economics (Undergraduate level; ECON 4170); Independent Study (Master level; ECON 4910).

Fall 2006: Microeconomic Analysis (Master level; ECON 6106).

Student Supervision:

PhD Program: Chair, PhD Thesis (on-going): Xiuli Sun.

Master's Program: Chair, Master's Theses: (1) Kelly P. Guedes, Spring 2008; (2) Celso V. Souza Junior, Spring 2008; (3) Jingwen Qu (on-going); (4) Yue Fang (on-going).

Undergraduate Program: Advisor, Undergraduate Senior Papers: (1) Catherine Gillespie, Spring 2008; (2) Mathew Ngo, Spring 2009; (3) Sara Scruggs, Fall 2009; (4) Mathew Phelan, Fall 2010.

SERVICE AT GEORGIA TECH:

Fall 2011 – Director, PhD Program; Chair, PhD Program Committee (School of Economics); Chair of Promotion & Tenure Committee (School of Economics); Member, Promotion & Tenure Committee (Ivan Allen College); Member, Institute Graduate College Curriculum Committee (Institute).

Fall 2010 – Spring 2011: Director, PhD Program; Chair, PhD Program Committee (School of Economics); Co-Chair, Junior Search Committee (School of Economics); Chair of Promotion & Tenure Committee (School of Economics); Chair of Promotion & Tenure Committee (Ivan Allen College); Acting Chair of Ivan Allen College Latin American Advisory Committee (Ivan Allen College); Member, Institute Graduate College Curriculum Committee (Institute); Member, Institute's Exploratory Mission in Rio de Janeiro, Brazil – in February 2011 (Institute); Leader of Initiative to Develop Memorandum of Understanding between Georgia Tech and University of Brasilia – MOU completed in January 2011 (Institute).

Fall 2009 – Spring 2010: Director, PhD Program; Chair, PhD Program Committee (School of Economics); Chair of Senior Promotion & Tenure Committee (School of Economics); Member, Institute Graduate College Curriculum Committee (Institute).

Fall 2008 – Spring 2009: Director, PhD Program; Member, Promotion & Tenure Committee (School of Economics); Member, Institute Graduate College Curriculum Committee (Institute).

Fall 2007 – Spring 2008: Chair, PhD Program Committee; Chair, Junior Search Committee (Trade, Development and Environmental); Member, Promotion & Tenure Committee; Member, Senior Search Committee (School of Economics).

Fall 2006 – Spring 2007: Chair, PhD Program Committee; Member, Promotion & Tenure Committee; Member, Senior Search Committee (School of Economics).

COURSES TAUGHT AT TULANE UNIVERSITY:

Lagniappe 2006: Advanced Topics in Microeconomics (Undergraduate/Master levels; ECON 401/601).

Spring 2006: Macroeconomics (Principles, ECON-102-05); Advanced Price Theory I (PhD level; ECON-751-01).

Spring 2005: Industrial Organization II (PhD level; ECON-712-01); Economic Development Theory II (PhD level; ECON-772-01).

Fall 2004: Public Finance I (PhD level; ECON-767-01).

Spring 2003: Environment and Natural Resources (Undergraduate level; ECON 333-01); Special Studies in Economics, "Interregional Competition", w/ Naoto Aoyama (PhD level; ECON-798-08); Independent Studies, "Environmental Economics", w/ Xie Zhu (PhD level; ECON-799-12); Independent Studies, "Resource Allocation in Economics", w/ Yingge Lin (PhD level; ECON-799-31).

Fall 2002: Dissertation Workshop (PhD level; ECON-713-01); Environment and Natural Resources (Undergraduate level; ECON-333); Core Seminar in Latin American Studies - Economics Module (PhD level; LAST-700-02); Independent Studies (PhD level; ECON-798-08, ECON-798-12, ECON-798-31, ECON-798-93).

Spring 2002: Industrial Organization II (PhD level; ECON-712-01); Economic Development Theory II (PhD level; ECON-772-01).

Fall 2001: Intermediate Microeconomics (Undergraduate level; ECON-301-02); Public Finance II (PhD level; ECON-768-01); Core Seminar in Latin American Studies - Economics Module (PhD level; LAST-700-02).

Spring 2001: Macroeconomics (Principles; ECON-102-02); Environment and Natural Resources (Undergraduate level; ECON-333).

Fall 2000: Macroeconomics (Principles; ECON-102-03); Advanced Price Theory I (PhD level; ECON-751-01).

Spring 2000: Macroeconomics (Principles; ECON-102-02); Environment and Natural Resources (Undergraduate level; ECON-333).

Fall 1999: Macroeconomics (Principles; ECON-102-01); Public Finance II (PhD. level; ECON-768-01).

Student Supervision:

PhD Students: (1) Chair, PhD committee for Li Zhu (8/15/03); (2) Chair, PhD committee for Naoto Aoyama (11/15/04); (3) Chair, PhD committee for Xie Zhu (8/15/05); (4) Chair, PhD committee for Xudong Chen (8/15/06).

SERVICE AT TULANE UNIVERSITY:

Fall 2005 – Spring 2006: Department of Economics – Chair, Newcomb College Committee (University Committee); Stone Center for Latin American Studies - Admissions Committee (University Committee); Brazilian Studies Advisory Committee (University Committee).

Fall 2004: Department of Economics – Graduate Program Director, Newcomb College Committee (University Committee); Stone Center for Latin American Studies - Admissions Committee (University Committee); Brazilian Studies Advisory Committee (University Committee).

Fall 2002 - Spring 2003: Department of Economics - Graduate Program Director; Stone Center for Latin American Studies - Admissions Committee (University Committee) and Curriculum Committee (University Committee); Brazilian Studies Advisory Committee (University Committee).

Fall 2001 - Spring 2002: Department of Economics - Graduate Program Director; Stone Center for Latin American Studies - Admissions Committee (University Committee); Brazilian Studies Advisory Committee (University Committee).

Fall 2000 - Spring 2001: Seminar Series Coordinator (Department Committee), Brazilian Studies Advisory Committee (University Committee).

Fall 1999 - Spring 2000: Member, Search Committee (Department Committee).

COURSES TAUGHT AT THE UNIVERSITY OF OREGON:

Spring 1999: Economic Development and Growth (PhD level); Topics in Mathematical Economics (Undergraduate and Master levels).

Fall 1998: Core Microeconomics - Consumer Theory (PhD level); Economic Development and Growth (Undergraduate and Master levels); Mathematics for Economists (Master and PhD levels).

Spring 1998: Economic Development and Growth (Undergraduate and Master levels); Topics in

Mathematical Economics (Undergraduate and Master levels).

Fall 1997: Core Microeconomics - Consumer Theory (PhD level); Public Economics (Undergraduate and Master levels); Mathematics for Economists (Master and PhD levels).

Winter 1997: Economic Development and Growth (Undergraduate and Master levels);

Fall 1996: Core Microeconomics - Consumer Theory (PhD level); Advanced Microeconomic Theory (Undergraduate and Master levels); Mathematics for Economists (Master and PhD levels).

Summer 1996: Issues in Public Economics 340 (Undergraduate level).

Winter 1996: Public Economics (Undergraduate and Master levels); Public Economics (PhD level).

Fall 1995: Core Microeconomics - Consumer Theory (PhD level); Advanced Microeconomic Theory (Undergraduate and Master levels).

Spring 1995: Public Economics (PhD level).

Winter 1995: Public Economics (Undergraduate and Master levels); Economic Development and Growth (Undergraduate and Master levels).

Fall 1994: Core Microeconomics - Consumer Theory (PhD level).

Spring 1994: Economic Development and Growth (Undergraduate and Master levels); Problems and Issues in Developing Economies (Undergraduate level).

Winter 1994: Public Economics (PhD level).

Fall 1993: Public Economics (Undergraduate and Master levels).

Student Supervision:

PhD Students: (1) Co-chair, PhD committee for Arthur Caplan (May 1996); (2) Chair, PhD committee for Yoko Nagase (August 1999); (3) Member, PhD committee for David Smith; (4) Outside member, PhD committee for Nila Medina (August 1996); (5) Outside member, PhD committee for Sangwoo Heo (October 1997); (6) Member, Field Paper committee for Jim Lin (1995); and (7) Member, Field Paper committee for Scott Merryman (May 1999).

Master Students: Chair for: (1) Paul Hibbard (June 1995); (2) I-Chun Liu (August 1994); (3) Christopher Lundeen (June 1995); (4) Henry Martin (December 1994), (5) Yongsoo Lee (August 1996) (6) Kunil Hwang (May 1997) and (7) Konstantin Pisarchook (June 1996). Co-chair for: (8) Alexander Hauser (November 1995).

Undergraduates: Honors Thesis Advisor or Study Supervisor for: (1) Dean McKinney (Winter 1994); (2) Michelle Lee (Spring 1994); (3) Takashi Hasegawa (Winter 1995) and (Fall 1996); and (4) Hirofumi Tokushige (Winter 1995); (5) Stephanie Fox (Spring 1995); (6) Ricardo Davico (Spring 1996), (7) Yoshiyuki Kawai (Spring 1996), and (8) Victor Chi-Lok Yip (Winter 1996).

SERVICE AT THE UNIVERSITY OF OREGON:

Fall 1998 - Spring 1999: Member, Core Exam Committee (Department Committee); Graduate Placement Director (Department Committee); Chair, Committee on Outside Funding (Department Committee); Member, Environmental Issues Committee (University Committee); Member, International Studies Committee (University Committee).

Fall 1997 - Spring 1998: Member, Core Exam Committee (Department Committee); Graduate Placement Director (Department Committee); Chair, Committee on Outside Funding (Department Committee); Member, Masters Program Committee (Department Committee); Member, Environmental Issues Committee (University Committee).

Fall 1996 - Spring 1997: Member, Seminar Committee (Department Committee); Member, Core Exam Committee (Department Committee); Graduate Placement Director (Department Committee); Chair, Committee on Outside Funding (Department Committee); Member, Committee for Latin American Studies (University Committee); Member, Teaching Awards Committee (University Committee).

Fall 1995 - Spring 1996: Member, Seminar Committee (Department Committee); Member, Core Exam Committee (Department Committee); Member, Undergraduate Committee (Department Committee); Member, PhD Program Committee (Department Committee); Graduate Placement Director (Department Committee); Member, Committee for Latin American Studies (University Committee).

Fall 1994 - Spring 1995: Member, Seminar Committee (Department Committee); Member, Core Exam Committee (Department Committee); Member, Undergraduate Committee (Department Committee); Member, PhD Program Committee (Department Committee); Member, Search Committee (Department Committee); Member, Committee for Latin American Studies (University Committee).

Fall 1993 - Spring 1994: Member, Seminar Committee (Department Committee); Member, Committee for Latin American Studies (University Committee).

REFEREEING:

American Economic Review, Economic Journal, Journal of Public Economic Theory, Journal of Environmental Economics and Management, Journal of Public Economics, Journal of Urban Economics, RAND Journal of Economics, Regional Science and Urban Economics, Resource and Environmental Economics, Review of Economic Design, Southern Journal of Economics, International Tax and Public Finance, Quarterly Review of Economics and Finance.

RESEARCH SUPPORT FROM NON-UNIVERSITY SOURCES:

Pending:

1. Co-PI and Co-Director: NSF - Title: "SEP: A sustainable pathway for reducing and utilizing CO2 in the transportation sector," with Thomas Orlando (PI), Andrei Fedorov (Co-PI), Christopher Jones (Co-PI), Michael Meyer (Co-PI), David Sholl and Sophia Hayes; Amount requested: US\$ 1,998,264.
2. Co-PI: NSF - Title: "Generating Clean Electricity: Regulatory and Price Uncertainty in the Electricity Generation Industry," with Daniel Matisoff (PI), Douglas Noonan (Co-PI); Amount requested: US\$ 357,264.
3. PI: USDA - Title: "Sustainable Production of Biomass and Biofuels in Georgia and Southeast," with Douglas Noonan (Co-PI), Marilyn Brown, Erik Johnson, Daniel Matisoff, Juan Moreno-Cruz, Christine Ries; Amount requested: US\$ 349,995.76.

Past Support:

1. Co-investigator, (with Charles M. Kahn), "Exclusion, Free Riding and Collusion," research grant from the Institutional Reform and the Informal Sector (IRIS) program at the University of Maryland at College Park (with Charles M. Kahn), 1992-1993. Concluded in June 1994.
2. Principal researcher, (with Yoko Nagase), "Optimal Control of Acid Rain in Japan and China: A Game-Theoretic Analysis," research grant from the International Centre for the Study of East Asia Development (ICSEAD), Japan, April 2000 - March 31, 2001.

UNIVERSITY HONORS AND AWARDS:

Social Science Seed Grant, University of Oregon, June 1994.

Junior Professorship Award, College of Arts and Sciences, University of Oregon, 1995, 1996, 1997, 1998.

Summer Fellowship Award, Committee on Research Summer Fellowships, Tulane University, 2000.

Summer Research Award, Stone Center for Latin American Studies, Tulane University, 2002.