

Marcus Berliant

Department of Economics
Washington University
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Current Position

Professor of Economics, Washington University in St. Louis

Previous Positions

Visiting Associate in Economics, Division of the Humanities and Social Sciences, California Institute of Technology, August 2002 — August 2003, August 2009 — February 2010, September 2016 — January 2017

S.W. Brooks Visiting Fellow, The University of Queensland, May 1995 — July 1995

Visiting Fellow, The Australian National University, February 1995 — April 1995

Associate Professor of Economics, University of Rochester, July 1987 — June 1994

Visiting Scholar, University of California, Berkeley, June 1988 — June 1989

Assistant Professor of Economics, University of Rochester, July 1982 — June 1987

Visitor at CORE (Louvain-la-Neuve, Belgium), DELTA (Paris), ERMES (Paris II — Panthéon), Academia Sinica (Taipei), Institute of Economic Research (Kyoto University), Center for Economic Research (Tilburg University, The Netherlands), City University of Hong Kong, Konan University, Federal Reserve Bank of Philadelphia, Center for International Research on the Japanese Economy (University of Tokyo), The Whiteley Center (Friday Harbor Labs, University of Washington), Chuo University (Tachikawa, Japan), various times

Teaching and Research Fields

Economic Theory / Mathematical Economics

Public Economics / Public Finance

Urban Economics / Location Theory

Microeconomics

Positive Political Theory

Econometrics

Research Support

June 1994 — May 1997 NSF Grant # SBR-9319994 / SBR-9523940

August 1990 — August 1991 NSF Grant # SES-9007800

July 1986 — July 1988 NSF Grant #SES-8605629

December 1985 — November 1987 NATO Research Grant #85/0775 (with Thijs ten Raa)

June 1985 — May 1986 NSF Grant #SES-8420247

Professional and Government Service

Member, Whiteley Center Administrative Committee, 2020 — present.

Program Committee, Summer 2018 North American Meetings of the Econometric Society.

Local Organizer and Program Committee Member, Taxation Theory Conference, July 13-14, 2018.

Program Committee, CHUM Conference, Federal Reserve Bank of St. Louis, April 22-23, 2016.

Co-organizer, Summer 2017 North American Meetings of the Econometric Society.

Program Committee, Midwest Economic Theory Conference, Fall 2014.

Program Committee, Asian Meetings of the Econometric Society, June 2014.

Organizer, Charlie Leven Memorial Conference, March 17, 2012.

Co-organizer, with Adam Rose, of the Walter Isard memorial sessions at the North American Regional Science Association International Meetings in Miami, November 2011.

Organizer, Summer 2011 North American Meetings of the Econometric Society.

Program Chair and Organizer, Fall 2004 Midwest International Economics and Economic Theory Meetings.

Program Committee, Association for Public Economic Theory Meetings, 1998, 2002, 2009, 2012.

Organized NSF/NBER Decentralization Conferences, held at Washington University April 14-16, 2000; April 3-4, 2009.

Member, Group on Tax Reform, Office of the Mayor of St. Louis, 1998.

Organized a Mini-Conference on “The Economics of City Formation and Growth” for the Center in Political Economy, Washington University in St. Louis, March 14-16, 1997.

Program Chair, Midwest Mathematical Economics Conference, Fall 1996.

Organized a Mini-Conference on “Politics and Income Taxation” for the Center in Political Economy, Washington University in St. Louis, November 12, 1994.

Program Committee, Econometric Society Meetings, Summer 1991.

Member, Revenue Estimating Advisory Board, Joint Committee on Taxation, U.S. Congress, 1989.

Junior Econometrician, Joint Committee on Taxation, U.S. Congress, Summers 1976, 1977, 1978.

Academic Service

Director of Ph.D. Admissions, Department of Economics, Washington University, 2024 — present.

Director of Graduate Studies, Department of Economics, Washington University, 2017 — 2023.

Associate Chair, Department of Economics, Washington University, 2013 — 2016.

Member, Faculty Recruiting Committee, Department of Economics, Washington University, 2012 — 2013.

Member, Law and Economics Search Committee, Washington University, 2007 — 2008.

Member, Chair Search Committee, Department of Economics, Washington University, 2007 — 2008.

Member, Graduate Admissions Committee, Department of Economics, Washington University, 2007 — 2008, 2011 — present.

Member, Social Sciences Affirmative Action Monitoring Committee, Washington University, 2007 — 2008.

Outside Member, Department of Political Science Recruiting Committee, 2007 — 2008.

Director of Faculty Recruiting, Department of Economics, Washington University, 2005 — 2008.

Member, Executive Committee, Department of Economics, Washington University, 2005 — 2008.

Member, Chair Search Committee, Department of Economics, Washington University, 2003 — 2005.

Member, Committee on the Benjamin H. Stevens Graduate Fellowship in Regional Science, Regional Science Association International, 1999 — 2004. Chair 2000 — 2001.

National Tax Association Dissertation Prize Committee, 1999.

Running Urban Issues Seminar, Washington University, 1998 — 2002.

Placement Director, Department of Economics, Washington University, 1997 — 2002, 2003 — 2004, 2010 — 2012, 2013 — 2016.

Placement Committee, Department of Economics, Washington University, 1996 — 1997.

Director of Graduate Admissions, Department of Economics, University of Rochester, 1991 — 1992.

Director of Graduate Studies, Department of Economics, University of Rochester, July 1985
— June 1988.

Dissertation

Title: A General Equilibrium Model of an Economy with Land

Institution: University of California, Berkeley

Date of Completion: July 1982

Supervisor: Professor G. Debreu

Ph.D. Received: December 1982

Pre-Doctoral Studies

Institution	Degree	Date	Fields
University of California, Berkeley	M.A.	June 1981	Statistics
Cornell University	B.A.	June 1977	College Scholar in Econ/Math/Comp Sci

Fellowships, Scholarships, & Honors

Listed in various editions of *Who's Who in the World*, *Who's Who in America*, and *Who's Who in Finance and Business*

2022 SAET Economic Theory Fellow

2007 Recognition for Excellence in Mentoring, Graduate Student Senate of Arts and Sciences, Washington University in St. Louis

2005 Fellow of the Regional Science Association International

2003 Emerson Excellence in Teaching Award

2002-2003 Sabbatical Fellowship, American Philosophical Society

2002 Outstanding Faculty Mentor Award, Graduate Student Senate of Arts and Sciences, Washington University in St. Louis

2000 Outstanding Faculty Mentor Award, Graduate Student Senate of Arts and Sciences, Washington University in St. Louis

1984 Fulbright Fellowship, Erasmus University Rotterdam, The Netherlands

1983 Finalist, NTA/TIA Dissertation Competition

1980-81 Regents' Fellow, University of California, Berkeley

1978-79 Flood Fellow, University of California, Berkeley

1974-77 College Scholar, Cornell University

Publications

"Measuring the Distribution of Personal Taxes," with R.P. Strauss in *What Role for Government?* ed. by R. Zeckhauser and D. Leebaert (Duke University Press, 1982).

"A Characterization of the Demand for Land," *Journal of Economic Theory* 33 (1984) 289-300.

"Equilibrium Models with Land: A Criticism and an Alternative," *Regional Science and Urban Economics* 15 (1985) 325-340.

"The Horizontal and Vertical Equity Characteristics of the Federal Individual Income Tax, 1966-1977," with R.P. Strauss in *Horizontal Equity, Uncertainty, and Economic Well-Being* ed. by M. David and T. Smeeding (NBER/University of Chicago Press, 1985).

"An Equilibrium Existence Result for an Economy with Land," *Journal of Mathematical Economics* 14 (1985) 53-56.

"General Competitive Equilibrium of the Spatial Economy: Two Teasers," with Thijs ten Raa, *Regional Science and Urban Economics* 15 (1985) 585-590.

"A Utility Representation for a Preference Relation on a σ -Algebra," *Econometrica* 54 (1986) 359-362.

"A Foundation of Location Theory: Consumer Preferences and Demand," with Thijs ten Raa, *Journal of Economic Theory* 44 (1988) 336-353; see also "Corrigendum," *Journal of*

Economic Theory 58 (1992) 112-113.

“Nonlinear Supporting Prices: The Superadditive Case,” with Karl Dunz, *Journal of Mathematical Economics* 19 (1990) 357-367; see also *Mathematical Reviews* 91i:90015 (1991) p. 5182.

“On Welfare Theory and Urban Economics,” with Y.Y. Papageorgiou and Ping Wang, *Regional Science and Urban Economics* 20 (1990) 245-261.

“Supply and Equilibrium in an Economy with Land and Production,” with Hou-Wen Jeng, *International Economic Review* 31 (1990) 799-828.

“On the Continuum Approach of Spatial and Some Local Public Goods or Product Differentiation Models: Some Problems,” with Thijs ten Raa, *Journal of Economic Theory* 55 (1991) 95-120.

“Comments on ‘On the Foundations of Land Use Theory: Discrete versus Continuous Populations’ by Y. Asami, M. Fujita, and T.E. Smith,” *Regional Science and Urban Economics* 21 (1991) 639-645.

“On Income Taxation and the Core,” *Journal of Economic Theory* 56 (1992) 121-141.

“On the Fair Division of a Heterogeneous Commodity,” with Karl Dunz and William Thomson, *Journal of Mathematical Economics* 21 (1992) 201-216.

“Alonso’s Discrete Population Model of Land Use: Efficient Allocations and Competitive Equilibria,” with Masahisa Fujita, *International Economic Review* 33 (1992) 535-566.

“State and Federal Tax Equity: Estimates Before and After the Tax Reform Act of 1986,” with R.P. Strauss, *Journal of Policy Analysis and Management* 12 (1993) 9-43; reprinted in *State Tax Notes* 4 (1993) 1101-1122.

“Endogenous Formation of a City Without Agglomerative Externalities or Market Imperfections: Marketplaces in a Regional Economy,” with Ping Wang, *Regional Science and Urban Economics* 23 (1993) 121-144.

“Equal Sacrifice and Incentive Compatible Income Taxation,” with Miguel Gouveia, *Journal of Public Economics* 51 (1993) 219-240.

“Regional Science: The State of the Art,” a review of the *Handbook of Regional Economics*, with Thijs ten Raa, *Regional Science and Urban Economics* 24 (1994) 631-647.

“Existence of Equilibrium with Nonconvexities and Finitely Many Agents,” with Karl Dunz, *Journal of Mathematical Economics* 24 (1995) 83-93.

“Comments on ‘Nice Demand Functions — II’ by Trout Rader,” in *Economics With No Special Technology* by Trout Rader (Input-Output Publishing Co., 1996).

“On Recent Expositions of Horizontal and Vertical Equity,” with R.P. Strauss, *Public Economics Review* 1 (1996) 129-150. Received the Award for the Best Paper of the Year in the journal.

“Incentives and Income Taxation: The Implementation of Individual Revenue Requirement Functions,” with Frank H. Page, Jr., *Ricerche Economiche* 50 (1996) 389-400.

“On the Revelation of Private Information in Stock Market Economies,” with Sankar De, *Journal of Mathematical Economics* 30 (1998) 241-256.

“The Endogenous Formation of a City: Population Agglomeration and Marketplaces in a Location-Specific Production Economy,” with Hideo Konishi, *Regional Science and Urban Economics* 30 (2000) 289-324.

“On the Fairness Literature: Comment,” with Karl Dunz and William Thomson, *Southern Economic Journal* 67 (2000) 479-484.

“On Models with an Uncongestible Public Good and a Continuum of Consumers,” with Paul Rothstein, *Journal of Urban Economics* 48 (2000) 388-396.

“Income Taxes and the Provision of Public Goods: Existence of an Optimum,” with Frank H. Page, Jr., *Econometrica* 69 (2001) 771-784.

“Sensitivity Analysis for Applied General Equilibrium Models in the Presence of Multiple Walrasian Equilibria,” with Sami Dakhli, *Economic Theory* 19 (2002) 459-476.

“Production Externalities and Urban Configuration,” with Shin-Kun Peng and Ping Wang, *Journal of Economic Theory* 104 (2002) 275-303. Received the Taiwanese Industrial Organization Association Outstanding Research Paper Award.

“Possibility, Impossibility and History in the Origins of the Marriage Tax,” with Paul Rothstein, *National Tax Journal* 56 (2003) 303-317.

“Increasing Returns and Perfect Competition: The Role of Land,” with Thijs ten Raa, *Journal of Urban Economics* 54 (2003) 339-367.

“Efficient Allocations in Club Economies,” with John Edwards, *Journal of Public Economic Theory* 6 (2004) 43-63.

“A Foundation of Location Theory: Existence of Equilibrium, the Welfare Theorems and Core,” with Karl Dunz, *Journal of Mathematical Economics* 40 (2004) 593-618.

“Dynamic Urban Models: Agglomeration and Growth,” with Ping Wang, in *Urban Dynamics and Growth: Advances in Urban Economics*, edited by Pieter Nijkamp and Roberta Capello (Elsevier, 2004).

“Salience: Agenda Choices by Competing Candidates,” with Hideo Konishi, *Public Choice* 125 (2005) 129-149.

“Well Isn’t That Spatial?! Review of the *Handbook of Regional and Urban Economics: Volume 4: Cities and Geography* edited by J.V. Henderson and J.-F. Thisse,” *Journal of Economic Geography* 6 (2006) 107-110.

“Hedonism vs. Nihilism: No Arbitrage and Tests of Urban Economic Models,” with Daniel P. McMillen, *Regional Science and Urban Economics* 36 (2006) 118-131.

“Welfare Analysis of the Number and Locations of Local Public Facilities,” with Shin-Kun Peng and Ping Wang, *Regional Science and Urban Economics* 36 (2006) 207-226.

“Knowledge Exchange, Matching, and Agglomeration,” with Robert Reed and Ping Wang, *Journal of Urban Economics* 60 (2006) 69-95.

“Budget Balancedness and Optimal Income Taxation,” with Frank H. Page, Jr., *Journal of Public Economic Theory* 8 (2006) 409-451.

“The Indeterminacy of Equilibrium City Formation Under Monopolistic Competition and Increasing Returns,” with Fan-Chin Kung, *Journal of Economic Theory* 131 (2006) 101-133.

“Space in General Equilibrium,” with Courtney LaFountain, in *A Companion to Urban Economics*, edited by Richard Arnott and Dan McMillen (Blackwell, 2006).

“Equilibrium and the Core in Alonso’s Discrete Population Model of Land Use,” with Thijs ten Raa, *International Economic Review* 48 (2007) 235-246.

“Prospects for a Unified Urban General Equilibrium Theory,” *Regional Science and Urban Economics* 37 (2007) 466-471.

“Urban Growth and Subcenter Formation: A Trolley Ride from the Staples Center to Disneyland and the Rose Bowl,” with Ping Wang, *Journal of Urban Economics* 63 (2008) 679-693.

“When Worlds Collide: Different Comparative Static Predictions of Continuous and Discrete Agent Models with Land,” with Tarun Sabarwal, *Regional Science and Urban Economics* 38 (2008) 438-444.

“Knowledge Creation as a Square Dance on the Hilbert Cube,” with Masahisa Fujita, *International Economic Review* 49 (2008) 1251-1295.

“Dynamics of Knowledge Creation and Transfer: The Two Person Case,” with Masahisa Fujita, *International Journal of Economic Theory* 5 (2009) 155-179.

“Bifurcations in Regional Migration Dynamics,” with Fan-chin Kung, *Regional Science and Urban Economics* 39 (2009), 714-720.

“Review of ‘Mapping Decline: St. Louis and the Fate of the American City’ by Colin Gordon,” *Journal of Regional Science* 49 (2009), 998-1000.

“Central Place Theory,” in *The New Palgrave Dictionary of Economics, 2nd Edition*, ed. by S.E. Durlauf and L.E. Blume (Palgrave Macmillan, 2010), 734-736.

“Misbehavioral Urban Economics,” *Journal of Regional Science* 50 (2010), 93-101.

“Can Information Asymmetry Cause Stratification?” with Fan-chin Kung, *Regional Science and Urban Economics* 40 (2010), 196-209.

“The Dynamics of Knowledge Diversity and Economic Growth,” with Masahisa Fujita, *Southern Economic Journal* 77 (2011), 856-884.

“Culture and Diversity in Knowledge Creation,” with Masahisa Fujita, *Regional Science and Urban Economics* 42 (2012), 648-662.

“Rational Expectations in Urban Economics,” with Chia-Ming Yu, *Regional Science and Urban Economics* 43 (2013), 197-208.

“Labor Differentiation and Agglomeration in General Equilibrium,” with Yves Zenou, *International Regional Science Review* 37 (2014), 36-65.

“Optimal Dynamic Nonlinear Income Taxes with No Commitment,” with John Ledyard, *Journal of Public Economic Theory* 16 (2014), 196-221.

“Taxing Pollution: Agglomeration and Welfare Consequences,” with Shin-Kun Peng and Ping Wang, *Economic Theory* 55 (2014), 665-704.

“Local Politics and Economic Geography: Information Aggregation and Polarization,” with Takatoshi Tabuchi, *Journal of Regional Science* 54 (2014), 806-827.

“Explaining the Size Distribution of Cities: Extreme Economies,” with Hiroki Watanabe, *Quantitative Economics* 6 (2015), 153-187.

“Locational Signaling and Agglomeration,” with Chia-Ming Yu, *Journal of Regional Science* 55 (2015), 757-773.

“Beyond Urban Form: How Masahisa Fujita Shapes Us,” with Tomoya Mori, *International*

Journal of Economic Theory 13 (2017), 5-28.

“Optimal Income Taxation with a Stationarity Constraint in a Dynamic Stochastic Economy,” with Shota Fujishima, *Journal of Public Economic Theory* 19 (2017), 739-747.

“Equilibrium Commuting,” with Takatoshi Tabuchi, *Economic Theory* 65 (2018), 609-627.

“A Scale-Free Transportation Network Explains the City-Size Distribution,” with Hiroki Watanabe, *Quantitative Economics* 9 (2018), 1419-1451.

“General Equilibrium Theories of Spatial Agglomeration,” with Ping Wang, in the *Oxford Research Encyclopedia of Economics and Finance* (2019),

<http://dx.doi.org/10.1093/acrefore/9780190625979.013.550>

“Preparing Undergraduates for Application to Graduate School: Comments,” *Journal of Economic Education* 2020, doi: <https://doi.org/10.1080/00220485.2020.1731395>

“Daily Commuting,” in *Research in Transportation Economics*, March 2024,

<https://doi.org/10.1016/j.retrec.2023.101392>

“Politics and Income Taxes: Progress and Progressivity,” with Pierre C. Boyer, in *Journal of Public Economic Theory* 26 (August 2024), <https://doi.org/10.1111/jpet.12704>

“Market Size, Trade, and Productivity Reconsidered: Poverty Traps and the Home Market Effect,” with Takatoshi Tabuchi, in *Economic Theory Bulletin* 2025, <https://doi.org/10.1007/s40505-024-00283-9>

Papers in Progress

“Horizontal and Vertical Equity: A Theoretical Framework and Empirical Results for The Federal Individual Income Tax 1966-1987,” with R.P. Strauss.

“Inequality in Optimal Income Taxation,” with Sheila H. Lin.

“Incentive Compatible Income Taxation, Individual Revenue Requirements and Welfare,” with Miguel Gouveia.

“On the Political Economy of Nonlinear Income Taxation,” with Miguel Gouveia.

“Strategic Arguments Before an Appellate Court,” with Joe Tonon.

“Agglomeration, Increasing Returns, Externalities and Welfare: Testable Implications and Some Empirical Results,” with Daniel P. McMillen.

“Distributional Analysis of Prospective 2009 US Individual Income Taxes: Current Law and the Candidates’ Tax Plans,” with Robert P. Strauss.

“Measuring Economic Growth from Outer Space: A Comment,” with Adam Weiss.

“Commuting and Internet Traffic Congestion.”

“Evil Deeds in Urban Economics,” with Masahisa Fujita.

“Commitment and Matching in the Marriage Market,” with Sounak Thakur.

“Knowledge Creation through Multimodal Communication,” with Masahisa Fujita.

“Agglomeration in Purely Neoclassical and Symmetric Economies,” with A. Watanabe.

Graduate Students Supervised

Students supervised at least in part, according to the thesis title page, in chronological order of completion of degree. The following received degrees from the University of Rochester.

Nicholas C. Yannelis (Economics, 1983), Jeffrey Hill (Political Science, 1986), Ping Wang (Economics, 1987), Bruce Kingma (Economics, 1989), Sheila H. Lin (Economics, 1989), John Conley (Economics, 1990), Miguel Gouveia (Economics, 1991), Takashi Suzuki (Economics, 1992), Wan-Hsiang Pan (Economics, 1993), Julian Manning (Economics, 1993), Thomas Nechyba (Economics, 1994), Hideo Konishi (Economics, 1994), Edward Song (Economics, 1994), Neal Masia (Economics, 1995), Jiping Guo (Economics, 1996), George Clarke (Economics, 1996)

The following received degrees from Washington University in St. Louis.

TJ Iijima (Economics, 1996), Sami Dakhli (Economics, 1998), Gary Hoover (Economics, 1998), Mingmei Zheng Jones (Economics, 1999), Dino Falaschetti (Economics, 1999), Marco Castaneda (Economics, 2000), Cheryl Xiaoning Long (Economics, 2001), James Marton (Economics, 2001), Erik O’Donoghue (Economics, 2001), David Lang (Economics, 2002), Fan-chin Kung (Economics, 2002), Joe Tonon (Political Science, 2003), Courtney LaFountain (Economics, 2003), Vlad Manole (Economics, 2004), Vahe Lskavyan (Economics, 2005), Guido Cataife (Economics, 2008), Jeremy Jackson (Economics, 2008), Kevin Shaver (Economics, 2009), Chia-Ming Yu (Economics, 2011), Shota Fujishima (Economics, 2012), Hiroki Watanabe (Economics, 2014), Brady Vaughan (Economics, 2015), Emma Dong (Economics,

2018), Sounak Thakur (Economics, 2020), Saumya Deojain (Economics, 2021), Yuichi Imai (Economics, 2023), Omar Gondal (Economics, 2024)

Journal and Foundation Service

Associate Editor, *Regional Science and Urban Economics*, June 1989 — present

Associate Editor, *Journal of Public Economic Theory*, June 1997 — present

Associate Editor, *Papers in Regional Science*, January 1999 — November 2015

Associate Editor, *Journal of Regional Science*, May 2000 — present

Associate Editor, *Journal of Urban Economics*, September 2014 — December 2023

Coeditor, *International Journal of Economic Theory*, February 2004— December 2017

Coeditor, *economics*, May 2006 — December 2023

Coeditor of a special issue of the *International Journal of Economic Theory* on optimal income taxation, with J. Ledyard, volume 3, number 1, March 2007.

Coeditor of a special issue of the *International Journal of Economic Theory* in honor of Masahisa Fujita, with T. Mori, volume 13, number 1, March 2017.

American Economic Review, *American Economic Review: Insights*, American Philosophical Society, *Annales d'Economie et de Statistique*, *Berkeley Electronic Press*, *Bulletin of Economic Research*, *Cambridge University Press*, *Canadian Journal of Economics*, *Center for Development Economics (CDE) DP Series*, *Econometrica*, *Economic Inquiry*, *Economic Journal*, *Economic Theory*, *economics*, *Economics of Transportation*, *European Economic Review*, *European Research Council*, *Games and Economic Behavior*, *International Economic Review*, *International Journal of Game Theory*, *International Journal of Industrial Organization*, *International Review of Law and Economics*, *International Tax and Public Finance*, *Japanese Economic Review*, *Journal of Development Economics*, *Journal of Economic Geography*, *Journal of Economic Theory*, *Journal of Economics and Management Strategy*, *Journal of Mathematical Economics*, *Journal of Policy Analysis and Management*, *Journal of Political Economy*, *Journal of Public Economics*, *Journal of Regional Science*, *Journal of Theoretical Politics*, *Journal of Urban Economics*, *Lingua Franca*, *Location Science*, *Mathematical Social Sciences*, *National Science Foundation*, *National Tax Journal*, *Oxford Bibliographies*, *Papers in Regional Science*, *PLOS ONE*, *Proceedings of the American Mathematical Society*, *Public Finance Review*, *Quarterly Journal of Economics*, *Rand Journal*, *Regional Science and Urban Economics*, *Review of Economic Studies*, *Review of Economics of the Household*, *Social*

Professional Activities

Presented papers at the Econometric Society Meetings:

December 1982, June 1983, December 1983, December 1984, August 1985, December 1985, June 1987, December 1987, June 1988, December 1989 (Organized and chaired a session as well), August 1990, December 1990, January 1992, June 1992, June 1994, August 1995, June 1996, June 1997, June 1998, August 2000, June 2001, June 2004, August 2005, June 2006, January 2007, July 2009, August 2010, June 2014, August 2015

Presented a paper with R.P. Strauss at the NBER Conference on Horizontal Equity, December 1983.

Member of NBER working group on state — federal interactions, 1990-1991. Participated in many NBER state & local public finance workshops during this period.

Attended the NBER Conference on General Equilibrium April 1983, May 1985, March 1986, 1987, 1988, May 1989, 1991, April 1993 and May 1999. Presented a paper in May 1989, May 1999, October 2005, October 2006, and October 2007. Rapporteur for this Conference in 1979, 1980.

Presented a paper at the NSF/NBER Conference on Decentralization in 1998, 2003, 2007, 2008.

Member: American Economic Association

 Econometric Society

 National Tax Association

 Regional Science Association International

3/10/25