

Luc Anselin, Ph.D.

Center for Spatial Data Science
University of Chicago
1155 East 60th Street, Room 212
Chicago, IL 60637
anselin@uchicago.edu

EDUCATION

- *Ph.D., Regional Science*, Cornell University, 1980
Dissertation: *Estimation Methods for Spatial Autoregressive Structures: A Study in Spatial Econometrics*
- *M.A., Regional Science*, Cornell University, 1979
- Department of City and Regional Planning, Rijksuniversiteit Gent (Belgium), 1976–77
- *Graduate Certificate in Statistics, Econometrics and Operations Research*, Vrije Universiteit Brussel (Belgium) (Master's Degree), *summa cum laude*, 1976
- *Special Degree in Education of Business and Economics at the High School Level*, Vrije Universiteit Brussel (Belgium) (High School Teacher's License), 1976
- *Licenciate in Economics*, Vrije Universiteit Brussel (Belgium) (B.S), *magna cum laude*, 1975
Thesis: *Zero Growth, A Critical Analysis* (in Dutch)

HONORS AND AWARDS

- 2022 *Waldo Tobler Award in Geographic Information Science*, Austrian Academy of Sciences
- 2019 *Lifetime Achievement Award*, International Association of Chinese Professionals in Geographic Information Science (CPGIS)
- 2013 *UCGIS Research Award*, University Consortium for Geographic Information Science, 2013
- Elected *UCGIS Fellow*, University Consortium for Geographic Information Science, 2012
- Elected *Fellow, American Academy of Arts and Sciences*, 2011.
- Elected *Member, U.S. National Academy of Sciences*, 2008.
- *Empirical Economics Springer Prize*, Best Paper in Empirical Economics (Anselin and Lozano-Gracia, 2008), 2007.
- *William Alonso Memorial Prize*, Regional Science Association International, 2006.
- *Fellow, Spatial Econometric Society*, 2006.
- *Walter Isard Award*, Regional Science Association International, 2005.
- Elected *Fellow, Regional Science Association International*, 2004.
- *National Center for Supercomputing Applications (NCSA), Faculty Fellow*, University of Illinois, Urbana-Champaign, 2004–2006.
- *Incomplete List of Teachers Ranked as Excellent by Their Students*, University of Illinois, Urbana-Champaign, 2003, 2005, 2007.
- College of Engineering *Outstanding Junior Faculty Researcher Award*, The Ohio State University, 1984.

- Cornell University, *Andrew D. White Fellowship*, 1977-1980.
- Cornell University, *Graduate Summer Fellowship*, 1978, 1979.
- Belgian American Educational Foundation, *Hoover Fellow*, 1977–1978.
- *Government Medal of Excellence* (Belgium - High School Award), 1971.

ACADEMIC APPOINTMENTS

University of Chicago, Chicago, IL 7/16–present

- *Stein-Freiler Distinguished Service Professor of Sociology and the College*
- *Committee on Quantitative Methods in Social, Behavioral and Health Sciences*
- *Senior Fellow, NORC*
- *Affiliated Faculty, Program on Global Environment*

Nanjing Normal University, Nanjing, China 5/19–12/24

- *Affiliated Faculty, School of Geographical Sciences*

Arizona State University, Tempe AZ, 7/07–6/16

- *Research Professor, School of Geographical Sciences and Urban Planning* (7/16-6/17)
- *Regents' Professor, School of Geographical Sciences and Urban Planning* (12/11-6/16)
- *Walter Isard Chair* (4/10-6/16)
- *Distinguished Sustainability Scientist, Global Institute of Sustainability* (10/10-6/16)
- *Foundation Professor of Geographical Sciences* (7/07-4/10)
- *Affiliated Faculty, School of Sustainability* (7/07–6/16)

Brown University, Providence, RI 1/15–6/17

- *Visiting Professor, Department of Sociology*
- *Visiting Scholar, Spatial Structures in the Social Sciences, Department of Sociology*, 8/13-12/13

Massachusetts Institute of Technology, Cambridge, MA 7/13-1/15

- *Visiting Professor, Department of Urban Studies and Planning*

Wuhan University, Wuhan, China 6/10–6/15

- *Guest Professor, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS)*

University of Illinois, Urbana-Champaign, 8/99–8/07

- *Faculty Excellence Professor, Department of Agricultural and Consumer Economics, 8/99–8/07, Department of Geography, 8/05–8/07*
- *Professor, Department of Urban and Regional Planning, 8/99–8/07*
- *Professor, Department of Economics, 8/99–8/07*
- *Professor, Department of Political Science, 3/06–8/07*
- *Senior Research Scientist, National Center for Supercomputing Applications, 5/06–7/07*
- *Senior Research Professor, Regional Economics Applications Laboratory (REAL), 8/99–8/07*

University of Texas, Dallas, 7/98–7/99

- *Professor of Economics, Geography and Political Economy, School of Social Sciences*

West Virginia University, 5/93–7/98

- *Research Professor of Regional Science, Regional Research Institute*
- *Professor of Economics*
- *Adjunct Professor of Geography*
- *Adjunct Professor of Agricultural and Resource Economics*

Interuniversity Consortium for Political and Social Research (ICPSR), University of Michigan, Ann Arbor, MI, 6/95–6/04

- *Faculty, Summer Program in Quantitative Methods*

Institute of Behavioral Science, University of Colorado, Boulder, CO, 7/90–12/90

- *Visiting Research Scholar*

University of California, Santa Barbara, CA, 7/85–6/94

- *Professor, Department of Geography, 7/89–6/94*
- *Professor, Department of Economics, 7/89–6/94*
- *Associate Professor, Department of Economics, 9/87–6/89*
- *Associate Professor, Department of Geography, 7/85–6/89*

The Ohio State University, Columbus, OH, 9/80–6/85

- *Assistant Professor, Department of City and Regional Planning*

Cornell University, Ithaca, NY, 1980

- *Instructor, Graduate Field of Regional Science*

Vrije Universiteit Brussel (Belgium), 1977

- *Researcher, Center for Demography, Department of Sociology*

Dutch High School Prinses Juliana, Brussel (Belgium), 1975–77

- *Teacher (Economics)*

ADMINISTRATIVE APPOINTMENTS

University of Chicago, Chicago, IL, 6/16–present

- *Founding Director, Center for Spatial Data Science*
- *Chair, Committee on Geographical Sciences, 7/17– 6/20*
- *Program Director, Minor in Geographical Sciences 7/21–*

Wuhan University, Wuhan, China, 1/18–present

- *Co-Director, Geocomputation Center for Social Science*

Arizona State University, Tempe, AZ, 7/07–6/16

- *Founding Director, GeoDa Center for Geospatial Analysis and Computation, 7/07– 6/16*
- *Founding Director, School of Geographical Sciences and Urban Planning, 6/09–7/13*
- *Interim Director, School of Planning, 10/08–5/09*
- *Director, School of Geographical Sciences, 7/07–5/09*

University of Illinois, Urbana-Champaign, IL, 8/99–7/07

- *Director, Spatial Analysis Laboratory, 8–02/7/07*
- *Associate Director, Illinois Center for Computing in the Humanities, Arts and Social Sciences (I-CHASS), 5/06–7/07*

University of Texas, Dallas, TX, 7/98–7/99

- *Director, Bruton Center for Development Studies, 7/98–7/99*

West Virginia University, Morgantown, WV, 5/93–7/98

- *Interim Director, Regional Research Institute, 5/97–5/98*

University of California, Santa Barbara, CA, 7/85–6/93

- *Associate Director, National Center for Geographic Information and Analysis (NCGIA), Director, David S. Simonett Center for Spatial Analysis, 4/91–6/93*
- *Graduate Advisor and Chair Graduate Committee, 7/88–12/89, 4/92–9/92*
- *Vice Chair, 7/88–6/89*

The Ohio State University, Columbus, OH, 9/80–6/85

- *Interim Chair, Department of City and Regional Planning, 3/85–6/85*

TEACHING

University of Chicago, Chicago IL, 7/16–present

- Introduction to Spatial Data Science (UG/G)
- Spatial Regression Analysis (UG/G)
- Spatial Cluster Analysis (UG/G)
- GIScience Practicum (UG)
- Social Science Inquiry – Spatial Analysis I, III (UG, core)

Brown University, Providence, RI, 1/15–6/17

- Spatial Data Analysis Techniques for the Social Sciences (G)
- Advanced Spatial Data Analysis Techniques for the Social Sciences (G)

Arizona State University, Tempe AZ, 7/07–6/16

- Geographic Information Analysis (UG/G)
- Advanced Spatial Statistics (G)
- Spatial Analysis for Planners (G)
- ASU 101 – The ASU Experience (UG)
- Spatial Regression Analysis (UG/G)
- Spatial Econometrics (G)
- Open Source Software Tools for Planners (UG/G)
- Topics in Spatial Regression Analysis (G)

Massachusetts Institute of Technology, Cambridge, MA, 7/13–1/15

- Dynamic Urban Neighborhoods, City Scale Spatial Analytics (G)
- Applied Spatial Data Analysis with GeoDa/PySAL (G)

University of Illinois, Urbana-Champaign, 8/99–8/07

- Spatial Econometrics (G)
- Spatial Analysis (G)
- Computational Techniques for Spatial Analysis (G)
- Advanced Spatial Analysis (G)
- Research Methods (G)

University of Texas, Dallas, 7/98–7/99

- GIS Application Software Development (G)
- Spatial Econometrics (G)
- Advanced GIS (G)
- Internet GIS (G)

Interuniversity Consortium for Political and Social Research (ICPSR), University of Michigan, Ann Arbor, MI, 6/95–6/04

- Spatial Data Analysis and GIS
- Introduction to Spatial Data Analysis
- Spatial Regression Analysis

West Virginia University, 5/93–7/98

- Econometrics I (G)
- Seminar in Econometrics (G)
- Seminar in Regional Economics (G)
- Spatial Econometrics (G)
- Spatial Analysis (G)
- Virtual Seminar in Geographic Information Systems (UCGIS)

University of California, Santa Barbara, CA, 7/85–6/94

- Introduction to Socio-Economic Geography (UG)
- Urban Geography (UG)
- Location Theory (UG)
- Real Estate and Housing Markets (UG)
- Urban and Regional Economics (UG)
- Introduction to Regional Modeling and Planning (UG)
- Geographical Data Analysis (UG/G)
- Spatial Statistics (G)
- Seminar in Regional Analysis (G)
- Methods of Regional Analysis (G)
- Seminar in Urban Problems (G)
- Seminar in Geographic Information Systems (G)

The Ohio State University, Columbus, OH, 9/80–6/85

- Multiregional Planning Methods and Models (G)
- Spatial Models in Urban Planning (G)
- Decision Analysis in Urban and Regional Planning (G)
- Regional Planning Studio (G)
- Outlines of Regional Planning (G)
- State Planning of Regional Growth and Development (G)
- Plan and Project Evaluation (G)
- Seminar in Location Policy Planning (G)
- Seminar in Problem Solving Skills (G)

Cornell University, Ithaca, NY, 1980

- Non-Parametric Statistics for Regional Scientists (G)

EDITORIAL APPOINTMENTS

Editorships

- Editor, *International Regional Science Review*, 1996–2014
- Founding Co-Editor, *Letters in Spatial and Resource Science*, 2007–09
- Editor-in-Chief, *Papers in Regional Science*, *The Journal of the Regional Science Association International*, 1993–95
- North American Editor, *Papers in Regional Science*, *The Journal of the Regional Science Association International*, 1992–95
- Co-Editor, Book Series in *Regional Science and Urban Economics*, North Holland Publishers, Amsterdam, 1991–93
- Co-Editor, *Conflict Management and Peace Science*, 1979–80

Guest Editor

- *Geo-Spatial Information Sciences*, Special Issue on *Geocomputation for Social Sciences*, 2019
- *International Regional Science Review*, Special Issue on *Memorial for Raymond Florax*, 2020; Special Issue on *Memorial for Andrew Isserman*, 2013; Special Issue on *Spatial Externalities*, 2003; Special Issue on *Spatial Econometrics*, 1997
- *Geographical Analysis*, Special Issue on *Software for Spatial Analysis in the Social Sciences*, 2006; Special Issue on *Open Source Software for Spatial Analysis*, 2022
- *Journal of Geographical Systems*, Special Issue on *Computing Environments for Spatial Data Analysis*, 2000; Special Issue on *Arthur Getis, a Legend in Geographical Systems*, 2023
- *Regional Science and Urban Economics*, Special Issue on *Space and Applied Econometrics*, 1992

Editorial Boards

- *Journal of Spatial Econometrics*, 2019–
- *Regional Studies*, *Regional Science* 2013–
- *Jahrbuch fur Regionalwissenschaft/Review of Regional Research*, 2013–
- *Spatial Demography*, 2011–
- *Journal of Urban Management*, 2010–
- *Spatial Economic Analysis*, 2005–
- *Annals, Association of American Geographers*, 2001–2009, 2014–18
- *Journal of Geographical Systems/Geographical Systems*, 1992–
- *Papers in Regional Science*, 1990–91, 1996–
- *Regional Science and Urban Economics*, 1991–2010
- *Geographical Analysis*, 1990–2008, 2014–

- *Journal of Regional Science*, 1990–
- *International Regional Science Review*, 1988–95, 2014–

FUNDED RESEARCH

- *ADVancing the SOCiome for SociAl and HealTh Equity (ADVOCATE)*, CDAC Discovery Challenge (U Chicago), Co-PI, \$126,339, 2021-2022.
- *Methodology and Advanced Analytics Resource Center (MAARC)*, National Institute on Drug Abuse, Co-Investigator, \$3,635,990, 2019-2024.
- *Predictive Analytics Applied to Integrated Administrative Emergency Response Datasets in Chicago*, National Institutes of Health, Co-Investigator, \$914,654, 2019-2022.
- *Are Disease Rates Higher Near Polluting Buses? A Spatial Quasi-Experimental Analysis of Chicago*, Respiratory Health Association (Fiscal Agent for Joyce Foundation), Co-PI, \$55,000, 2019-2020.
- *Spatial Modeling of Air Quality and its Determinants*, Partnership for Healthy Cities Chicago, Principal Investigator, Vital Strategies (Fiscal Agent for Bloomberg Philanthropies), \$50,000, 2019-20.
- *Partnership for Healthy Cities Chicago*, Principal Investigator, Vital Strategies (Fiscal Agent for Bloomberg Philanthropies), \$80,000, 2018.
- *NORC and UChicago CSDS: A Partnership to Promote Spatial Analysis*, Co-Principal Investigator, NORC IDEAlab Awards Program, \$25,000, 2017.
- *Networking Meetings by Center for Spatial Data Science*, Principal Investigator, The University of Chicago Center in Beijing, \$3,550, 2017.
- *Advancing Spatial Evaluation Methods to Improve Healthcare Efficiency and Quality*, Principal Investigator, Agency for Healthcare Research and Quality (AHRQ), \$1,250,000, 2013-18.
- *Spatial Regression Plug-In for ArcGIS*, Principal Investigator, Environmental Systems Research Institute, \$34,000, 2013-14.
- *Geospatial Factors and Impacts II*, Co-Principal Investigator, National Institutes of Health, \$1,600,000, 2012-16.
- *Si2-SSI: CyberGIS Software Integration for Sustained Geospatial Innovation*, Co-Principal Investigator, National Science Foundation, \$4,400,000, 2010–15
- *Flexible Geospatial Visual Analytics and Simulation Technologies to Enhance Criminal Justice Decision Support Systems*, Principal Investigator, National Institute of Justice, \$1,476,000, 2009–12
- *Improving Valuation for Property Tax Purposes through New Spatial Econometric Methods: The Case of Bogota, Colombia*, Co-Principal Investigator, Lincoln Institute of Land Policy, \$47,000, 2009–10
- *Support to the Institutional Strengthening of the Unidad Administrativa de Catastro Distrital Bogota, Colombia (UAECD)*, Co-Principal Investigator, Cadaster of Colombia, Bogota, \$65,000, 2008–09
- *Spatial Linkages and Urban Economic Development*, Co-Principal Investigator, U.S. Economic Development Administration, \$165,000, 2008–10

- *A Socio-Cultural Geospatial Analysis and Modeling Framework in Support of Stability Operations and Infrastructure Applications*, Principal Investigator, U.S. Army Construction Engineering Research Laboratory, \$390,000, 2008–09
- *Geospatial Factors and Impacts: Measurement and Use*, Co-Principal Investigator, National Institutes of Health (PI, subcontract from Research Triangle Institute International), \$825,000, 2007–11
- *Equity and Efficiency in Local Government Revenue Generation: A Spatially Explicit Analysis*, Co-Principal Investigator, The World Bank, \$75,000, 2006–07
- *Risk Analysis and Perception in Earthquake Decision Making*, Co-Principal Investigator, National Science Foundation/Mid America Earthquake Center, \$200,000, 2004–07
- *Hedonic Models of Location Decisions with Applications to Geospatial Micro-Data*, Co-Principal Investigator, National Science Foundation/Argonne National Laboratory, \$600,000, 2004–07
- *Extending the Frontier of Multivariate Geovisualization: Virtual Reality and Parallelization in GeoDa*, Principal Investigator, National Center for Supercomputing Applications, \$27,000, 2004–05
- *Prostate Cancer ESDA and Spatial Statistics*, Principal Investigator, Association of Teachers of Preventive Medicine (ATPM)/Centers for Disease Control Cooperative Agreement Subawards Program, \$758,000, 2003–06
- *Geovisualization and Spatial Analysis of Cancer Data*, Co-Principal Investigator, National Institutes of Health (PI, subcontract from Pennsylvania State University), \$318,000, 2002–07
- *Center for Spatially Enabled Social Science*, Co-Principal Investigator, National Science Foundation (PI, subcontract from UC Santa Barbara), \$940,000, 1999–04
- *A Multiobjective Decision Making Tool for the Redevelopment of the Calumet Region, Illinois*, Co-Principal Investigator, National Science Foundation/Environmental Protection Agency, \$275,000, 2001–02
- *The Sensitivity of Concentration-Response Functions to the Explicit Modeling of Space-Time Dependence*, Co-Principal Investigator, National Science Foundation/Environmental Protection Agency, \$150,000, 2000–02
- *A Web-Based Spatial Analytical Toolkit for the Study of Homicide Data*, Principal Investigator, National Consortium on Violence Research (NCOVR), \$104,000, 2000–01
- *The Spatial Patterning of County Homicide Rates in the Post-War Period: An Exploration of Diffusion Effects*, Co-Principal Investigator, National Consortium on Violence Research (NCOVR), \$97,000, 1998–99
- *Spatial Analyses of Cardiovascular Disease*, Co-Principal Investigator, Centers for Disease Control, \$91,000, 1997–98
- *Survey of High Technology Use in the West Virginia Manufacturing Industry*, Principal Investigator, Byrd Institute for Flexible Manufacturing, Marshall University, \$75,000, 1997–98
- *Spatial Econometric Analysis of Amazon Deforestation*, Consultant, NASA (PI, subcontract from University of Texas, Austin), \$7,000, 1997–98

- *Targeting Industry Clusters: Implications for Employment Growth in Rural Areas*, Co-Investigator, U.S. Department of Agriculture/NRI (PI, subcontract from Clemson University), \$14,000, 1996–98
- *Stroke in the Elderly: Small Area Analyses to Support Prevention Efforts among Medicare Beneficiaries*, Co-Principal Investigator, Health Care Financing Administration (HCFA)/Centers for Disease Control (CDC), \$360,000, 1996–97
- *New Methods for the Exploratory Analysis of Geographical Data*, Principal Investigator, National Science Foundation, \$82,000, 1994–96
- *Continued Development of SpaceStat, a Software Package for the Analysis of Spatial Data*, Principal Investigator, National Science Foundation/National Center for Geographic Information and Analysis, \$16,000, 1993–94
- *Editorial Office, Papers in Regional Science*, Principal Investigator, Regional Science Association International/UC Santa Barbara, \$55,000, 1993–95
- *Research Experience for Undergraduates (REU), Undergraduate Research in Regional Science*, Co-Principal Investigator, National Science Foundation, \$120,000, 1993–96
- *Integrating GIS and Spatial Analysis Techniques for the Study of Cassava-Based Cropping Systems in Africa*, Principal Investigator, The Rockefeller Foundation, \$67,000, 1992–94
- *Integrating GIS and Spatial Regression Analysis*, Principal Investigator, Environmental Systems Research Institute, \$12,000, 1992
- *Cooperative Research Between Hitachi America Limited and NCGIA*, Co-Principal Investigator, Hitachi America Limited, \$120,000, 1992–93
- *National Center for Geographic Information and Analysis* (fifth year renewal), Co-Principal Investigator, \$1,100,000, 1992–93
- *National Center for Geographic Information and Analysis* (fourth year renewal), Co-Principal Investigator, \$1,100,000, 1991–92
- *Peace, War, Guns and Butter: A Geographical Perspective*, Principal Investigator, The California Institute on Global Conflict and Cooperation, \$15,000, 1990–91
- *Spatial Analysis of International Conflict and Cooperation* (Collaborative Research with J. O'Loughlin), Principal Investigator, National Science Foundation, \$69,000, 1990–91
- *The Development of a Workbook of Laboratory Exercises and Accompanying Materials for Introduction to Socio-Economic Geography (Geography 5)*, Principal Investigator, UC Santa Barbara, Instructional Improvement Grant, \$6,000, 1990–91
- *The Development of Spatial Econometric Software with Standard Regression Packages*, Principal Investigator, UC Santa Barbara, Senate Committee on Research, General Research Grant, \$2,000, 1989–90
- *A Multi-Course, Multi-Media Database of Illustrative Materials for Courses in Urban and Behavioral Geography*, Co-Principal Investigator, UC Santa Barbara, Instructional Improvement Grant, \$8,000, 1989–90
- *Workshop on The Role of the State in Economic Development in the Pacific Rim*, Co-Principal Investigator, University of California, Pacific Rim Research Program, \$15,000, 1989–90

- *The Importance of Spatial Effects in Applied Regression Analysis in Regional Science and Geography* (Collaborative Research with D. Griffith), Principal Investigator, National Science Foundation, \$40,000, 1988–90
- *The Application of an Integrated Multiregional Input-Output and Econometric Modeling Framework to California Water Resources Problems*, Principal Investigator, The State of California, Water Resources Center, \$45,000, 1987–89
- *Economic Impacts of Alternative Development Scenarios for the University of California, Santa Barbara*, Principal Investigator, UC Santa Barbara, \$21,000, 1987–88
- *Robust Estimation, Qualitative Analysis and Model Validation in Spatial Econometrics*, Principal Investigator, National Science Foundation, \$50,000, 1986–88
- *Development of a Landsat-Thematic Mapper Estimate of the Magnitude and Spatial Variation of Fuel Loadings in Urban Areas: A Pilot Study for the San Jose Area, California*, Co-Principal Investigator, California Space Institute (UC San Diego), \$18,000, 1986–87
- *Developing Supporting Materials for a Microcomputer Oriented Set of Courses in Regional Modeling and Planning*, Principal Investigator, UC Santa Barbara, Instructional Improvement Grant, \$5,000, 1986–87
- *Specification Tests and Model Selection for Spatial Interaction and the Structure of Spatial Dependence*, Principal Investigator, National Science Foundation, \$40,000, 1983–85
- *Decision Support System for Utility Performance Evaluation*, Project Director, National Association of Regulatory Utility Commissioners (NARUC), \$147,000, 1983–85
- *A Micro-Analytic Approach to Intra-Urban Residential Movement, Housing Choice and Neighborhood Transition*, Co-Principal Investigator, The Ohio Board of Regents, \$40,000, 1984–85
- *Economic Development Problems and Programs in Ohio*, Co-Principal Investigator, The Ohio State University, \$17,000, 1981–82
- *Comparative Operating Statistics for Electric Utilities*, Project Director, U.S. Department of Energy, \$72,000, 1980–82

PUBLICATIONS

Citation Impact

ISI Web of Science (7/23)

- Total items: 149
- Sum of times cited: 20,450
- Average citations per item: 138.13
- h-index: 46

Google Scholar (7/23)

- Total citations: 93,256
- h-index: 97
- i-10 index: 223

Books, Edited Volumes and Monographs

- Anselin, L. and S. Rey, *Modern Spatial Econometrics in Practice, A Guide to GeoDa, GeoDaSpace and PySAL*. Chicago, IL, GeoDa Press, 2014.
- Clarke, K., L. Anselin, A. Bayen, G. Black, B. Buttenfield, K. Carley, J. Jensen, R. Langley, E. Mikhael, S. Shekhar, M. Solem, P. Stephan, M. Yuan, M. Zyda, *Future U.S. Workforce for Geospatial Intelligence*. Washington, D.C., National Academies Press, 2013.
- Anselin, L. and S. Rey (Eds.), *Perspectives on Spatial Data Analysis*. Berlin, Springer-Verlag, 2010.
- Anselin, L., R. Florax and S. Rey (Eds.), *Advances in Spatial Econometrics. Methodology, Tools and Applications*. Berlin, Springer-Verlag, 2004.
- Anselin, L. and S. Rey (Eds.), *New Tools for Spatial Data Analysis: Proceedings of a Workshop*. Center for Spatially Integrated Social Science, University of California, Santa Barbara, 2002 (CD-ROM).
- Messner, S., L. Anselin, D. Hawkins, G. Deane, S. Tolnay, R. Baller, *An Atlas of the Spatial Patterning of County-Level Homicide, 1960–1990*. Pittsburgh, NCOVR (<http://www.ncovr.heinz.cmu.edu/>), 2000.
- Anselin, L. and R. Florax (Eds.), *New Directions in Spatial Econometrics*. Berlin, Springer-Verlag, 1995.
- Anselin, L. and M. Madden (Eds.), *New Directions in Regional Analysis: Integrated and Multiregional Approaches*. London, Belhaven Press, 1990 (paperback edition, 1993).
- Anselin, L., *Spatial Econometrics: Methods and Models*. Dordrecht, Kluwer Academic Publishers, 1988.
- Anselin, L., *Estimation Methods for Spatial Autoregressive Structures: A Study in Spatial Econometrics*. Regional Science Dissertation and Monograph Series #8, Ithaca, N.Y., Program in Urban and Regional Studies Publications, 1980.
- Lesthaeghe, R., with S. Wijewickrema, A. De Kerpel, Ph. Van Praag, M. Despontin, L. Anselin, H. Page, L. Hubert, *Demographic Alternatives for Belgium and their Socio-Economic Impacts*. Antwerpen, Amsterdam, De Sikkel-De Nederlandsche Boekhandel, 1979 (in Dutch).

Refereed Journal Articles

- Anselin, L., P. Amaral. "Endogenous Spatial Regimes." *Journal of Geographical Systems*, 2023 (DOI:10.1007/s10109-023-00411-2).
- Anselin, L., S. Rey. "Open Source Software for Spatial Data Science." *Geographical Analysis* 54, 2022: 429-438 (DOI:10.1111/gean.12339)
- Lin, Q., M. Kolak, B. Watts, L. Anselin, H. Pollack, J. Schneider, B. Taylor. "Individual, Interpersonal, and Neighborhood Measures Associated with Opioid Use Stigma: Evidence from a Nationally Representative Survey." *Social Science and Medicine* 305, 2022: 115034 (DOI:10.1016/j.socscimed.2022.115034).
- Algeri, C., L. Anselin, A. Fabio Forgione, C. Migliardo. "Spatial Dependence in the Technical Efficiency of Local Banks." *Papers in Regional Science* 101 (3), 2022: 685-716 (DOI:10.1111/pirs.12669)
- Anselin, L., X. Li and J. Koschinsky. "GeoDa. From the Desktop to an Ecosystem for Exploring Spatial Data." *Geographical Analysis* 54, 2022: 439-466 (DOI:10.1111/gean.12311)

- Zhu, R., L. Anselin, M. Batty, M-P Kwan, M. Chen, W. Luo, T. Cheng, C.K. Lim, P. Santi, C. Cheng, Q. Gu, M.S. Wong, K. Zhang, G. Lü, C. Ratti (2021). The Effects of Different Travel Models and Travel Destinations on COVID-19 Transmission in Global Cities. *Science Bulletin* 2022 (DOI:10.1016/j.scib.2021.11.023)
- Talen, E. and L. Anselin. "Tracking Sixty Years of Income Diversity Within Neighborhoods: The Case of Chicago, 1950-2010." *Cities* 121, 2022: 103479 (DOI:10.1016/cities.2021.103479).
- Rey, S., L. Anselin, P. Amaral, D. Arribas-Bel, R. Cortes, J. Gaboardi, W. Kang, E. Knaap, Z. Li, S. Lumntz, T. Oshan, H. Shao and L. Wolf. "The PySAL Ecosystem: Philosophy and Implementation. *Geographical Analysis*, 54 2022 : 467-487 (DOI:10.1111/gean.12276).
- Saxon, J., J. Koschinsky, K. Acosta, V. Anguiano, L. Anselin and S. Rey. "An Open Software Environment to Make Spatial Access Metrics More Accessible." *Journal of Computational Social Science* 5, 2022: 265-284 (DOI:10.1007/s42001-021-00126-8)
- Talen, E. and L. Anselin. "City Cents: Tracking the Spatial Imprint of Urban Public Expenditures." *Cities* 108, 2021: 102962 (DOI:10.10.16/j.cities.2020.102962)
- Wolf, L.J., L. Anselin, D. Arribas-Bel, L. Mobley. "On Spatial and Platial Dependence: Examining Shrinkage in Spatially-Dependent Multilevel Models." *Annals American Association of Geographers*, 111 (6), 2021: 1679-1691. (DOI:10.1080/24694452.2020.1841602)
- Press D., B. Aschebrook-Kilfroy, D. Lauderdale, E. Stepniak, S. Lin Gomez, E. Peterson Johnson, R. Gopalikrishnan, F. Smieliuskas, D. Hedeker, L. Bettencourt, L. Anselin, H. Ahsan. "Chicago Multiethnic Prevention and Surveillance Study (COMPASS): Increased Response Rates Among African American Residents in Low Socioeconomic Status Neighborhoods. *Journal of Racial and Ethnic Health Disparities* 8 (1), 2021: 186-198 (DOI:10.1007/s40615-020-00770-2).
- Anselin, L. and X. Li. "Tobler's Law in a Multivariate World." *Geographical Analysis* 52 (4), 2020: 494-510 (DOI:10.1111/GEAN.12237, April 2020).
- Kolak, M. and L. Anselin. "A Spatial Perspective on the Econometrics of Program Evaluation." *International Regional Science Review* 43 (1-2), 2020: 128-153.
- Anselin, L. "Quantile Local Spatial Autocorrelation." *Letters in Spatial and Resource Science* 12 (2), 2019: 155-166 (DOI: 10.1007/s12076-019-00234-0, July 2019).
- Anselin, L. and X. Li. "Operational Local Join Count Statistics for Cluster Detection." *Journal of Geographical Systems* 21 (2), 2019: 189-210 (DOI: 10.1007/s10109-019-00300-7, April 2019).
- Chasco C, P. Aroca and L. Anselin. "Probit Models for Grouped-data Migration Flows: A Theoretical Note." *Economia* 42, 2019: 1-8.
- Anselin, L. "A Local Indicator of Multivariate Spatial Association: Extending Geary's c." *Geographical Analysis* 51 (2), 2019: 133-150 (DOI:10.1111/gean.12164, Aug 2018).
- Talen, E., S. Wheeler, and L. Anselin. "The Social Context of U.S. Built Landscape." *Landscape and Urban Planning* 177, 2018: 266-280.
- Wolf, L., L. Anselin, and D. Arribas-Bel. "Stochastic Efficiency of Bayesian Markov Chain Monte Carlo in Spatial Econometrics Models: An Empirical Comparison of Exact Sampling Methods." *Geographical Analysis* 50 (1), 2018: 97-119.
- Talen, E., L. Anselin, J. Koschinsky and S. Lee. "Looking for Logic: The Zoning-Land Use Mismatch." *Landscape and Urban Planning* 152, 2016: 27-38.
- Anselin, L. and S. Williams. "Digital Neighborhoods." *Journal of Urbanism* 9 (4), 2016: 305-328.

- Kleinschmidt, S., A. Murray, S. Rey, L. Anselin and T. Grubesic. "Spatial Uncertainty in Cluster Detection." *Spatial Information Research* 24 (3), 2016: 181-189.
- Mann, A., D. Folch, R. Kauffman and L. Anselin. "Spatial and Temporal Trends in Information Technology Outsourcing." *Applied Geography* 63, 2015: 192-203.
- Rey, S., L. Anselin, X. Li, R. Pahle, J. Laura, W. Li and J. Koschinsky. "Open Geospatial Analytics with PySAL." *ISPRS International Journal of Geo-Information* 4 (2), 2015: 815-836 (DOI:10.3390/ijgi4020815).
- Laura, J., W. Li, S. Rey and L. Anselin. "Parallelization of a Regionalization Heuristic in Distributed Computing Platforms – A Case Study of the Parallel-p-compact-regions Problem. *International Journal of Geographical Information Science* 29 (4), 2015: 536-555.
- Zhang, C., T. Zhao, L. Anselin, W. Li and K. Chen. "A Map-Reduce Based Parallel Approach for Improving Query Performance in a Geospatial Semantic Web for Disaster Response." *Earth Science Informatics* 8 (3), 2015: 499-509.
- Anselin, L. "Spatial Data Science for an Enhanced Understanding of Urban Dynamics." *The Cities Papers*, 2015, The Social Science Research Council, New York, NY (<http://citiespapers.ssrc.org>).
- Zhao, T., C. Zhang, L. Anselin, W. Li and K. Chen. A Parallel Approach for Improving Geo-SPARQL Query Performance. *International Journal of Digital Earth* 8 (5), 2014: 383-402.
- Anselin, L., S. Rey and W. Li. "Metadata and Provenance for Spatial Analysis: The Case of Spatial Weights," *International Journal of Geographical Information Science* 28 (11), 2014: 2261-2280.
- Amaral, P. and L. Anselin. "Finite Sample Properties of Moran's I Test for Spatial Autocorrelation in Tobit Models," *Papers in Regional Science* 93 (4), 2014: 773-781.
- Rey, S., A. Murray, T. Grubesic, E. Mack, R. Wei, L. Anselin, M. Griffin. "Sex Offender Residential Movement Patterns: A Markov Chain Analysis. *The Professional Geographer* 66 (1), 2014: 102-111.
- Talen, E., E. Allen, A. Bosse, J. Ahmann, J. Koschinsky, E. Wentz and L. Anselin. LEED-ND as an Urban Metric. *Landscape and Urban Planning* 119, 2013: 20-34.
- Wang, S., L. Anselin, B. Bhaduri, C. Crosby, M. Goodchild, Y. Liu and T. Nyerges. "CyberGIS Software: A Synthetic Review and Integration Roadmap," *International Journal of Geographical Information Science* 27 (11), 2013: 2122-2145.
- Amaral, P., L. Anselin and D. Arribas-Bel. "Testing for Spatial Error Dependence in Probit Models," *Letters in Spatial and Resource Sciences* 6 (2), 2013: 91-101.
- Rey, S., L. Anselin, R. Pahle, X. Kang and P. Stephens. "Parallel Optimal Choropleth Map Classification in PySAL." *International Journal of Geographical Information Science* 27 (5), 2013: 1023-1039.
- Li, W., L. Li, M. Goodchild and L. Anselin. "A Geospatial Cyberinfrastructure for Urban Economic Analysis and Spatial Decision Making." *ISPRS International Journal of Geo-Information* 2 (2), 2013: 413-431.
- Anselin, L. and D. Arribas-Bel. "Spatial Fixed Effects and Spatial Dependence in a Single Cross-Section," *Papers in Regional Science* 92 (1), 2013: 3-17.
- Anselin, L. "Andy Isserman's Regional Science," *International Regional Science Review* 36 (1), 2013: 4-15.
- Lozano-Gracia N. and L. Anselin. "Is the Price Right? Assessing Estimates of Cadastral Values for Bogota, Colombia," *Regional Science, Policy and Practice* 4 (4), 2012: 495-508.

- Anselin, L. and S. Rey. "Spatial Econometrics in an Age of CyberGIScience," *International Journal of Geographical Information Science* 26 (12), 2012: 2211-2226.
- Duque, J., L. Anselin and S. Rey. "The Max-p-Regions Problem," *Journal of Regional Science* 52 (3), 2012: 397-419.
- Murray, A., P. Gober, L. Anselin, S. Rey, D. Sampson, P. Padegimas and Y. Liu. "Spatial Optimization Models for Water Supply Allocation," *Water Resources Management* 26 (8), 2012: 2243-2257.
- Mobley, L., M. Kuo, M. Urato, S. Subramanian, L. Watson and L. Anselin. "Spatial Heterogeneity in Cancer Control Planning and Cancer Screening Behavior," *Annals of the Association of American Geographers* 102 (5), 2012: 1113-1124.
- Murray, A., Y. Liu, S. Rey, L. Anselin. "Exploring Movement Object Patterns," *Annals of Regional Science* 49 (2), 2012: 471-484.
- Anselin, L. "From SpaceStat to CyberGIS: Twenty Years of Spatial Data Analysis Software," *International Regional Science Review* 35 (2), 2012: 131-157.
- Woodard, J., G. Schnitkey, B. Sherrick, N. Lozano-Gracia, L. Anselin. "A Spatial Econometric Analysis of Loss Experience in the U.S. Crop Insurance Program," *Journal of Risk and Insurance* 79 (1), 2012: 261-286.
- Mobley, L., S. Subramanian, J. Koschinsky, H.E. Frech, L. Clayton and L. Anselin. "Medicare Managed Care Penetration and Diffusion of Colonoscopy Among FFS Medicare," *Health Services Research* 46 (6), 2011: 1905-1927.
- Anselin, L., J. Nasar and E. Talen. "Where Do Planners Belong? Assessing the Relationship Between Planning and Design in American Universities." *Journal of Planning Education and Research* 31 (2), 2011: 196-207.
- Kuo, T-M, L. Mobley and L. Anselin. "Geographic Disparities in Late Stage Breast Cancer Diagnosis in California," *Health and Place* 17 (1), 2011: 327-334.
- Rey, S., A. Murray and L. Anselin. "Visualizing Regional Income Distribution Dynamics," *Letters in Spatial and Resource Sciences* 4 (1), 2011: 81-90.
- Mack, E., L. Anselin and T. Grubesic. "The Importance of Broadband Provision to Knowledge Intensive Firm Location," *Regional Science, Policy and Practice* 3 (1), 2011: 17-35.
- Rey, S. L. Anselin, D. Folch, D. Arribas-Bel, M. Sastre-Butierrez, L. Interlante. "Measuring Spatial Dynamics in Metropolitan Areas," *Economic Development Quarterly* 25 (1), 2011: 54-64.
- Anselin, L., S. Rey and J. Koschinsky. "Flexible Geospatial Visual Analytics and Simulation Technologies to Enhance Criminal Justice Decision Support Systems," *Crime Mapping, A Journal of Research and Practice* 2 (1), 2010: 10-31.
- Mobley, L., M. Kuo, M. Urato, J. Boos, N. Lozano-Gracia, L. Anselin. "Determinants of Endoscopic Colorectal Cancer Screening over Time in 11 States," *Cancer Causes and Control* 31 (3), 2010: 445-461.
- Anselin, L. "Thirty Years of Spatial Econometrics," *Papers in Regional Science* 89 (1), 2010: 3-25.
- Anselin, L., N. Lozano-Gracia, U. Deichmann and S. Lall. "Valuing Access to Water: A Spatial Hedonic Approach, with an Application to Bangalore, India." *Spatial Economic Analysis* 5 (2), 2010: 161-179.
- Smirnov, O. and L. Anselin. "An O(N) Parallel Method of Computing the Log-Jacobian of the Variable Transformation for Models with Spatial Interaction on a Lattice." *Computational Statistics and Data Analysis* 53, 2009: 2980-2988.

- Mobley, L., H. Frech and L. Anselin. "Spatial Interaction, Spatial Multipliers, and Hospital Competition." *International Journal of the Economics of Business* 16 (1), 2009: 1–17.
- Mobley, L., T. Kuo, D. Driscoll, L. Clayton, L. Anselin. "Heterogeneity in Mammography Use Across the Nation: Separating Evidence of Disparities from the Disproportionate Effects of Geography." *International Journal of Health Geographics* 7, 132, 2008.
- Bostrom, A., L. Anselin and J. Farris. "Visualizing Seismic Risk and Uncertainty: A Review of Related Research," *Annals of the New York Academy of Sciences* 1128, 2008: 29–40.
- Anselin, L. and N. Lozano-Gracia. "Errors in Variables and Spatial Effects in Hedonic House Price Models of Ambient Air Quality," *Empirical Economics* 34 (1), 2008: 5–34.
- Anselin, L. "Spatial Econometrics in RSUE: Retrospect and Prospect," *Regional Science and Urban Economics* 37 (4), 2007: 450–456.
- Anselin, L., S. Sridharan and S. Gholston. "Using Exploratory Spatial Data Analysis to Leverage Social Indicator Databases: The Discovery of Interesting Patterns," *Social Indicators Research* 82 (2), 2007: 287–309.
- Rey, S. and L. Anselin. "PySAL: A Python Library of Spatial Analytical Methods." *The Review of Regional Studies* 37(1), 2007: 5–27.
- Anselin, L. and J. Le Gallo. "Interpolation of Air Quality Measures in Hedonic House Price Models: Spatial Aspects," *Spatial Economic Analysis* 1(1), 2006: 31–52.
- Anselin, L., I. Syabri and Y. Kho. "GeoDa: An Introduction to Spatial Data Analysis," *Geographical Analysis* 38 (1), 2006: 5–22.
- Rey, S. and L. Anselin. "Recent Advances in Software for Spatial Analysis in the Social Sciences," *Geographical Analysis* 38 (1), 2006: 1–4.
- Anselin, L. "How (not) to Lie with Spatial Statistics," *American Journal of Preventive Medicine* 30 (2), 2006: S3–S6.
- Mobley, L., E. Root, L. Anselin, N. Lozano, J. Koschinsky. "Spatial Analysis of Elderly Access to Primary Care Services," *International Journal of Health Geographics* 5 (19), 2006.
- Messner, S., G. Deane, L. Anselin and B. Pearson-Nelson. "Locating the Vanguard in Rising and Falling Homicide Rates among U.S. Cities," *Criminology* 43 (3), 2005: 661–696.
- Anselin, L., Y-W Kim and I. Syabri. "Web-Based Spatial Analysis Tools for the Exploration of Spatial Data," *Journal of Geographical Systems* 6 (2), 2004: 197–218.
- Anselin, L., R. Bongiovanni and J. Lowenberg-DeBoer. "A Spatial Econometric Approach to the Economics of Site-Specific Nitrogen Management in Corn Production," *American Journal of Agricultural Economics* 86 (3), 2004: 675–687.
- Anselin, L. and R. Moreno. "Properties of Tests for Spatial Error Components," *Regional Science and Urban Economics* 33 (5), 2003: 596–618.
- Anselin, L. "Spatial Externalities," *International Regional Science Review* 26 (2), 2003: 147–152.
- Anselin, L. "Spatial Externalities, Spatial Multipliers and Spatial Econometrics," *International Regional Science Review* 26 (2), 2003: 153–166.
- Kim, C-W, T. Phipps, L. Anselin. "Measuring the Benefits of Air Quality Improvement: A Spatial Hedonic Approach," *Journal of Environmental Economics and Management* 45 (1), 2003: 24–39.

- Anselin, L. "Under the Hood: Issues in the Specification and Interpretation of Spatial Regression Models," *Agricultural Economics* 17 (3), 2002: 247–267.
- Baller, R., S. Messner, L. Anselin and G. Deane. "The Interchangeability of Homicide Data Sources: A Spatial Analytical Perspective," *Homicide Studies* 6 (3), 2002: 211–227.
- Anselin, L. and W. Tam Cho. "Spatial Effects and Ecological Inference," *Political Analysis* 10 (3), 2002: 276–297.
- Anselin, L. and W. Tam Cho. "Conceptualizing Space," *Political Analysis* 10 (3), 2002: 301–303.
- Acs, Z., L. Anselin, A. Varga. "Patents and Innovation Counts as Measures of Regional Production of New Knowledge," *Research Policy* 31 (7), 2002: 1069–1085.
- Anselin, L. "Spatial Effects in Econometric Practice in Environmental and Resource Economics," *American Journal of Agricultural Economics* 83 (3), 2001: 705–710.
- Anselin, L. "Rao's Score Test in Spatial Econometrics," *Journal of Statistical Planning and Inference* 97 (1), 2001: 113–139.
- Baller, R., L. Anselin, S. Messner, G. Deane, D. Hawkins. "Structural Covariates of U.S. County Homicide Rates, Incorporating Spatial Effects," *Criminology* 39 (3), 2001: 201–232.
- Smirnov, O. and L. Anselin. "Fast Maximum Likelihood Estimation of Very Large Spatial Autoregressive Models: A Characteristic Polynomial Approach," *Computational Statistics and Data Analysis* 35 (3), 2001: 301–319.
- Anselin, L., A. Varga, Z. Acs. "Geographic Spillovers and University Research: A Spatial Econometric Approach," *Growth and Change* 31 (4), 2000: 501–515.
- Anselin, L. "The Alchemy of Statistics, or Creating Data where No Data Exist," *Annals, Association of American Geographers* 90 (3), 2000: 586–592.
- Anselin, L. "Computing Environments for Spatial Data Analysis," *Journal of Geographical Systems* 2 (3), 2000: 201–225.
- Anselin, L. "GIS, Spatial Econometrics and Social Science Research," *Journal of Geographical Systems* 2 (1), 2000: 11–15.
- Anselin, L., A. Varga and Z. Acs. "Geographic and Sectoral Characteristics of Academic Knowledge Externalities," *Papers in Regional Science* 79 (4), 2000: 435–443.
- Anselin, L., S. Rey and E. Talen. "The Expanded and Revised IRSR Subject and Author Index," *International Regional Science Review* 23 (4), 2000: 345–349.
- Bao, S., L. Anselin, D. Martin, D. Stralberg. "Seamless Integration of Spatial Statistics and GIS: the S-Plus for ArcView and the S+Grassland Links," *Journal of Geographical Systems* 2 (3), 2000: 287–306.
- Rey, S. and L. Anselin. "Regional Science Publication Patterns in the 1990s," *International Regional Science Review* 23 (4), 2000: 323–344.
- Goodchild, M., L. Anselin, R. Appelbaum, B. Harthorn. "Towards Spatially Integrated Social Science," *International Regional Science Review* 23 (2), 2000: 139–159.
- Walker, R., E. Moran, L. Anselin. "Deforestation and Cattle Ranching in the Brazilian Amazon: External Capital and Household Processes," *World Development* 28 (4), 2000: 683–699.
- Anselin, L. "The Future of Spatial Analysis in the Social Sciences," *Geographic Information Sciences* 5 (2), 1999: 67–76.
- Messner, S., L. Anselin, R. Baller, D. Hawkins, G. Deane, S. Tolnay, "The Spatial Patterning of County Homicide Rates: An Application of Exploratory Spatial Data Analysis," *Journal of Quantitative Criminology* 15 (4), 1999: 423–450.

- Anselin, L. "GIS Research Infrastructure for Spatial Analysis of Real Estate Markets," *Journal of Housing Research* 9 (1), 1998: 113–133.
- Talen, E. and L. Anselin. "Assessing Spatial Equity: An Evaluation of Measures of Accessibility to Playgrounds," *Environment and Planning A* 30 (4), 1998: 595–613.
- Anselin, L., A. Varga and Z. Acs. "Local Geographic Spillovers between University Research and High Technology Innovations," *Journal of Urban Economics* 42 (4), 1997: 422–448.
- Anselin, L. and S. Rey. "Introduction to the Special Issue on Spatial Econometrics," *International Regional Science Review* 20 (1/2), 1997: 1–7.
- Anselin, L. and H. Kelejian. "Testing for Spatial Error Autocorrelation in the Presence of Endogenous Regressors," *International Regional Science Review* 20 (1/2), 1997: 153–182.
- Anselin, L., A. Bera, R. Florax and M. Yoon. "Simple Diagnostic Tests for Spatial Dependence," *Regional Science and Urban Economics* 26 (1), 1996: 77–104.
- Anselin, L. and O. Smirnov. "Efficient Algorithms for Constructing Proper Higher Order Spatial Lag Operators," *Journal of Regional Science* 36 (1), 1996: 67–89.
- O'Loughlin, J. and L. Anselin. "Geo-Economic Competition and Bloc Formation: U.S., German, and Japanese Trade Development, 1968–1992," *Economic Geography* 72 (2), 1996: 131–160.
- Anselin, L. "Local Indicators of Spatial Association — LISA," *Geographical Analysis* 27 (2), 1995: 93–115.
- O'Loughlin, J., C. Flint and L. Anselin. "The Geography of the Nazi Vote: Context, Confession and Class in the Reichstag Election of 1930," *Annals, Association of American Geographers* 84 (3), 1994: 351–380.
- Anselin, L., R.F. Dodson and S. Hudak. "Linking GIS and Spatial Data Analysis in Practice," *Geographical Systems* 1 (1), 1993: 3–23.
- Goodchild, M., L. Anselin, and U. Deichmann. "A Framework for the Areal Interpolation of Socioeconomic Data," *Environment and Planning A* 25 (3), 1993: 383–397.
- Anselin, L. "Space and Applied Econometrics: Introduction," *Regional Science and Urban Economics*, 22 (3), 1992: 307–316.
- Anselin, L. and S. Hudak. "Spatial Econometrics in Practice: A Review of Software Options," *Regional Science and Urban Economics*, 22 (3), 1992: 509–536.
- Deichmann, U., M. Goodchild, and L. Anselin. "Dealing with Errors in Socio-Economic Databases: Selected Findings of a National Research Initiative," *The Operational Geographer* 10 (2), 1992: 12–22 (with translation in French).
- Anselin, L. and A. Getis. "Spatial Statistical Analysis and Geographic Information Systems," *The Annals of Regional Science*, 26 (1), 1992: 19–33.
- Anselin, L. and S. Rey. "Properties of Tests for Spatial Dependence in Linear Regression Models," *Geographical Analysis*, 23 (2), 1991: 112–131.
- O'Loughlin, J. and L. Anselin. "Bringing Geography Back to the Study of International Relations: Spatial Dependence and Regional Context in Africa, 1966–78," *International Interactions*, 17 (1), 1991: 29–61.
- Anselin, L. "Some Robust Approaches to Testing and Estimation in Spatial Econometrics," *Regional Science and Urban Economics*, 20 (2), 1990: 141–163.
- Anselin, L. "Spatial Dependence and Spatial Structural Instability in Applied Regression Analysis," *Journal of Regional Science*, 30 (2), 1990: 185–207.
- Anselin, L. and S. Rey. "Issues in the Specification of an Integrated Multiregional Model for a System of Small Regions," *Sistemi Urbani*, 11 (2), 1989: 177–201.

- Can, A., L. Anselin, and E. Casetti. "Modeling the Household Intention to Move by the Expansion Method: Empirical Analysis and Model Validation," *Sistemi Urbani*, 11 (1), 1989: 102–127.
- Anselin, A., P. Meire, and L. Anselin. "Multicriteria Techniques Useful for Ecological Evaluation: An Example with the Analytical Hierarchy Process and Concordance Analysis," *Biological Conservation*, 49, 1989: 215–229.
- Anselin, L. "A Test for Spatial Autocorrelation in Seemingly Unrelated Regressions," *Economics Letters*, 28, 1988: 335–341.
- Anselin, L. and D. Griffith. "Do Spatial Effects Really Matter in Regression Analysis?" *Papers, Regional Science Association* 65, 1988: 11–34.
- Anselin, L. "Model Validation in Spatial Econometrics: A Review and Evaluation of Alternative Approaches," *International Regional Science Review* 11 (3), 1988: 279–316.
- Anselin, L. "Lagrange Multiplier Test Diagnostics for Spatial Dependence and Spatial Heterogeneity," *Geographical Analysis* 20 (1), 1988: 1–17.
- Anselin, L. "Some Further Notes on Spatial Models and Regional Science," *Journal of Regional Science* 26 (4), 1986: 799–802.
- Anselin, L. and A. Can. "Model Comparison and Model Validation Issues in Empirical Work on Urban Density Functions," *Geographical Analysis* 18 (3), 1986: 179–197.
- Anselin, L. "Non-Nested Tests on the Weight Structure in Spatial Autoregressive Models, Some Monte Carlo Results," *Journal of Regional Science* 26 (2), 1986: 267–284.
- Anselin, L. "Specification Tests on the Structure of Interaction in Spatial Econometric Models," *Papers, Regional Science Association* 54, 1984: 165–182.
- Anselin, L. "Specification Tests and Model Selection for Aggregate Spatial Interaction, An Empirical Comparison," *Journal of Regional Science* 24 (1), 1984: 1–15.
- Anselin, L. "A Simulation Framework for Modeling Dynamics in Policy Space," *Conflict Management and Peace Science* 7 (1), 1983: 25–38.
- Anselin, L. and E.G. Arias. "A Multicriteria Framework as a Decision Support System for Urban Growth Management Applications: Central City Redevelopment," *European Journal of Operational Research* 13 (3), 1983: 300–309.
- Anselin, L. "Implicit Functional Relationships Between Systemic Effects in a General Model of Movement," *Regional Science and Urban Economics* 12 (3), 1982: 365–380.
- Anselin, L. "A Note on Small Sample Properties of Estimators in a First Order Spatial Autoregressive Model," *Environment and Planning A* 14 (8), 1982: 1023–1030.
- Isard, W. and L. Anselin. "Integration of Multiregional Models for Policy Analysis," *Environment and Planning A* 14 (3), 1982: 359–376.
- Anselin, L. and W. Isard. "On Alonso's General Theory of Movement," *Man, Environment, Space and Time* 1 (1), 1979: 52–63.

Book Chapters

- Anselin, L. and I. Farah. "The Life and Death of Retail, Insights from Firm Demography." In C. Kickert and E. Talen (Eds.), *Streetlife: Urban Retail Perspectives and Prospects*. Toronto: University of Toronto Press, 2023: 27-46.

- Credit, K., I. Farah and L. Anselin. "The Ups and Downs of Retail, 2000-2015." In C. Kickert and E. Talen (Eds.), *Streetlife: Urban Retail Perspectives and Prospects*. Toronto: University of Toronto Press, 2023: 47-73.
- Anselin, L. "Spatial Econometrics." In S. Rey and R. Franklin (Eds.). *Handbook of Spatial Analysis in the Social Sciences*. Cheltenham, UK: Edward Elgar, 2022: 101-122.
- Anselin, L. "Spatial Models in Econometric Research." In J. Hamilton (Ed.), *The Oxford Research Encyclopedia of Economics and Finance*. Oxford: Oxford University Press, 2021. doi: 10.1093/acreforce/9780190625979.013.643
- Anselin, L. "Spatial Data Science." In D. Richardson (Ed.), *The International Encyclopedia of Geography: People, the Earth, Environment, and Technology*. New York, Wiley, 2020. doi: 10.1002/9781118786352.wbieg2015
- Anselin, L. "GeoDa (spatial statistical program)." In J.C. Barnes and David R. Forde (Eds.), *The Encyclopedia of Research Methods and Statistical Techniques in Criminology and Criminal Justice*. New York: Wiley, 2020.
- Li, W, M. Goodchild, L. Anselin and K. Weber. "A Service-Oriented Smart CyberGIS Framework for Data-Intensive Geospatial Problems," In S. Wang and M. Goodchild (Eds.), *CyberGIS: Fostering a New Wave of Geospatial Discovery and Innovation*. Dordrecht, Springer Netherlands, 2019: 189-211.
- Anselin, L. "From SpaceStat to CyberGIS: Twenty Years of Spatial Data Analysis Software," in C. Garrocho (Ed.), *Advances in Commercial Geography, Prospects, Methods and Applications*, Zinacantepec, El Colegio Mexiquense, 2013: 143-174 [reprint of Anselin (2012)]
- Murray, A.T., T.H. Grubesic, E.A. Mack, R. Wei, S.J. Rey, L. Anselin and M.L. Griffin. "Convicted Sex Offender Residential Movements," In M. Leitner (Ed.), *Crime Modeling and Mapping Using Geospatial Technologies*, New York, Springer, 2013: 51-71.
- Anselin, L., A. Murray and S. Rey. "Spatial Analysis," In T. Little (Ed.), *The Oxford Handbook of Quantitative Methods, Vol 2, Statistical Analysis*. Oxford, Oxford University Press, 2013: 154-174.
- Anselin, L. and S. Rey. "Perspectives on Spatial Data Analysis," In L. Anselin and S. Rey (Eds.), *Perspectives on Spatial Data Analysis*. Berlin, Springer-Verlag, 2010: 1-20.
- Anselin, L., Y. Syabri, Y. Kho. "GeoDa, An Introduction to Spatial Data Analysis," In M. Fischer and A. Getis (Eds.), *Handbook of Applied Spatial Analysis*. Berlin, Springer-Verlag 2010: 73-89 [reprint of Anselin et al. (2006)]
- Anselin, L., Y-W Kim and Y. Syabri. "Web-Based Analytical Tools for the Exploration of Spatial Data. In M. Fischer and A. Getis (Eds.), *Handbook of Applied Spatial Analysis*. Berlin, Springer-Verlag 2010: 151-173 [reprint of Anselin et al. (2004)]
- Rey, S.J. and L. Anselin. "PySAL, a Python Library of Spatial Analytical Methods. In M. Fischer and A. Getis (Eds.), *Handbook of Applied Spatial Analysis*. Berlin, Springer-Verlag 2010: 175-193 [reprint of Rey and Anselin (2007)]
- Anselin, L. and N. Lozano-Gracia. "Spatial Hedonic Models," In T.C. Mills and K. Patterson (Eds.), *Palgrave Handbook of Econometrics: Volume 2, Applied Econometrics*. Basingstoke, Palgrave Macmillan, 2009: 1213-1250.
- Anselin, L. "Spatial Regression," In A.S. Fotheringham and P. Rogerson (Eds.), *Handbook of Spatial Analysis*. Thousand Oaks, CA, Sage Publications, 2009: 255-275.
- Anselin, L. and N. Lozano-Gracia. "Errors in Variables and Spatial Effects in Hedonic House Price Models of Ambient Air Quality," In G. Arbia and B. Baltagi

(Eds.), *Spatial Econometrics, Methods and Applications*. Heidelberg, Physica Verlag, 2009: 5–34 [reprint of Anselin and Lozano-Gracia (2008)]

- Anselin, L., E. Griffiths, and G. Tita. “Crime Mapping and Hot Spot Analysis,” In R. Wortley, L. Mazerolle (Eds.), *Environmental Criminology and Crime Analysis*. Uffculme, Devon, UK, Willan Publishing, 2008: 97–116.
- Anselin, L., J. Le Gallo and H. Jayet. “Spatial Panel Econometrics,” In L. Matyas and P. Sevestre (Eds.), *The Econometrics of Panel Data, Fundamentals and Recent Developments in Theory and Practice* (3rd Edition). Berlin, Springer-Verlag, 2008: 627–662.
- Anselin, L. “Spatial Econometrics,” In T.C. Mills and K. Patterson (Eds.), *Palgrave Handbook of Econometrics: Volume 1, Econometric Theory*. Basingstoke, Palgrave Macmillan, 2006: 901–969.
- Anselin, L. “Spatial Dependence,” In B. Warff (Ed.), *Encyclopedia of Human Geography*. Thousand Oaks, CA, Sage Publications, 2006: 451–452.
- Anselin, L. “Spatial Heterogeneity,” In B. Warff (Ed.), *Encyclopedia of Human Geography*. Thousand Oaks, CA, Sage Publications, 2006: 452–453.
- Anselin, L. “Spatial Statistical Modeling in a GIS Environment,” In D. Maguire, M. Goodchild and M. Batty (Eds.), *GIS, Spatial Analysis and Modeling*. Redlands, CA, ESRI Press, 2005: 93–111.
- Varga, A., L. Anselin and Z. Acs. “Regional Innovation in the U.S. over Space and Time,” In G. Maier and S. Sedlacek (Eds.), *Spillovers and Innovation: Space, Environment and the Economy*. Vienna, Springer-Verlag, 2005: 93–104.
- Anselin, L., R.J.G.M. Florax and S. Rey, “Econometrics for Spatial Models, Recent Advances,” in L. Anselin, R. Florax and S. Rey (Eds.), *Advances in Spatial Econometrics: Methodology, Tools and Applications*, Berlin, Springer-Verlag, 2004: 1–25.
- Anselin, L., A. Getis, A. Lea, M. Ferguson and H. Miller, “Spatial Analysis and Modeling in a GIS Environment,” in R. McMaster and L. Usery (Eds.), *A Research Agenda for Geographic Information Science*. Boca Raton, CRC Press, 2004: 157–196.
- Messner, S. and L. Anselin, “Spatial Analyses of Homicide with Areal Data,” in M. Goodchild and D. Janelle (Eds.), *Spatially Integrated Social Science*, New York, Oxford University Press, 2004: 127–144.
- Anselin, L., “Spatial Regression,” in M. Lewis-Beck, A. Bryman and T.F. Liao, *The Sage Encyclopedia of Social Science Research Methods*, Thousand Oaks, CA, Sage Publications, 2003: 1050–1051.
- Anselin, L. “Spatial Econometrics,” In B. Baltagi (ed.), *A Companion to Theoretical Econometrics*. Oxford: Basil Blackwell, 2001: 310–330.
- Anselin, L., J. Cohen, D. Cook, W. Gorr, G. Tita, “Spatial Analyses of Crime,” In David Duffee (ed.), *Criminal Justice 2000: Volume 4. Measurement and Analysis of Crime and Justice*. Washington, DC: National Institute of Justice, 2000: 213–262.
- Anselin, L. “Interactive Techniques and Exploratory Spatial Data Analysis.” In P. Longley, M. Goodchild, D. Maguire and D. Rhind (eds.), *Geographical Information Systems: Principles, Techniques, Management and Applications*. New York: Wiley, 1999: 251–264.
- Anselin, L. “Exploratory Spatial Data Analysis in a Geocomputational Environment.” In P. Longley, S. Brooks, B. Macmillan and R. McDonnell (eds.), *GeoComputation, a Primer*. New York: Wiley, 1998: 77–94.

- Anselin, L. and A. Bera. "Spatial Dependence in Linear Regression Models with an Introduction to Spatial Econometrics." In A. Ullah and D. Giles (eds.), *Handbook of Applied Economic Statistics*. New York: Marcel Dekker, 1998: 237–289.
- Anselin, S. and S. Bao. "Exploratory Spatial Data Analysis Linking SpaceStat and ArcView." In M. Fischer and A. Getis (eds.), *Recent Developments in Spatial Analysis*. Berlin: Springer-Verlag, 1997: 35–59.
- Anselin, L. "The Moran Scatterplot as an ESDA Tool to Assess Local Instability in Spatial Association." In M. Fischer, H. Scholten, and D. Unwin (eds.), *Spatial Analytical Perspectives on GIS*. London: Taylor and Francis, 1996: 111–125.
- Anselin, L. and R. Florax. "Introduction." In L. Anselin and R. Florax (eds.), *New Directions in Spatial Econometrics*, Berlin: Springer-Verlag, 1995: 3–18.
- Anselin, L. and R. Florax. "Small Sample Properties of Tests for Spatial Dependence in Regression Models: Some Further Results." In L. Anselin and R. Florax (eds.), *New Directions in Spatial Econometrics*, Berlin: Springer-Verlag, 1995: 21–74.
- Anselin, L. "Exploratory Spatial Data Analysis and Geographic Information Systems." In M. Painho (ed.), *New Tools for Spatial Analysis*, Eurostat, Luxembourg, 1994, pp. 45–54.
- Anselin, L. "Discrete Space Autoregressive Models." In M.F. Goodchild, B. Parks and L.T. Steyaert (eds.), *G/S and Environmental Modeling*, Oxford: Oxford University Press, 1993: 454–69.
- Anselin, L. and A. Getis. "Spatial Statistical Analysis and Geographic Information Systems." In M. Fischer and P. Nijkamp (eds.), *Geographic Information Systems, Spatial Modeling and Policy Evaluation*, Berlin: Springer-Verlag, 1993: 35–49. [reprint of Anselin and Getis (1992)]
- O'Loughlin, J. and L. Anselin. "Geography of International Conflict and Cooperation: Theory and Methods." In M.D. Ward (ed.), *The New Geopolitics*, London: Gordon and Breach, 1992: 11–38.
- Anselin, L. and J. O'Loughlin. "Geography of International Conflict and Cooperation: Spatial Dependence and Regional Context in Africa." In M.D. Ward (ed.), *The New Geopolitics*, London: Gordon and Breach, 1992: 39–75.
- Anselin, L. "Spatial Dependence and Spatial Heterogeneity: Model Specification Issues in the Spatial Expansion Paradigm." In J.P. Jones and E. Casetti (eds.), *Applications of the Expansion Method*, London: Routledge, 1992: 334–354.
- Anselin, L. "Quantitative Methods in Regional Science: Perspectives on Research Directions." in D. Boyce, P. Nijkamp and D. Schefer (eds.), *Retrospect and Prospect of Regional Science*. New York: Springer Verlag, 1991: 403–424.
- Anselin, L. and M. Madden. "Integrated and Multiregional Approaches in Regional Analysis." In L. Anselin and M. Madden (eds.), *New Directions in Regional Analysis: Integrated and Multiregional Approaches*. London: Belhaven Press, 1990, pp. 1–23.
- Anselin, L. and M. Madden. "Future Directions in Regional Analysis." In L. Anselin and M. Madden (eds.), *New Directions in Regional Analysis: Integrated and Multiregional Approaches*. London: Belhaven Press, 1990, pp. 268–270.
- Anselin, L., S. Rey and U. Deichmann. "The Implementation of Integrated Models in a Multiregion System." In L. Anselin and M. Madden (eds.), *New Directions in Regional Analysis: Integrated and Multiregional Approaches*. London: Belhaven, 1990, pp. 146–170.
- Anselin, L. "What is Special About Spatial Data? Alternative Perspectives on Spatial Data Analysis." In D.A. Griffith (ed.), *Spatial Statistics: Past, Present and*

Future, Institute for Mathematical Geography Monograph Series, Ann Arbor, MI: IMaGe, 1990, pp. 63–77.

- Anselin, L. "Discussion of 'Some New Estimators in Spatial Econometrics' by J.H.P. Paelinck." In D.A. Griffith (ed.), *Spatial Statistics: Past, Present and Future*, Institute for Mathematical Geography Monograph Series, Ann Arbor, MI: IMaGe, 1990, pp. 179–181.
- Anselin, L. and J. O'Loughlin. "Spatial Econometric Analysis of International Conflict." In M. Chatterji and R. Kuenne (eds.), *Dynamics and Conflict in Regional Structural Change, Festschrift in Honor of Walter Isard*, New York: Macmillan, 1990, pp. 325–345.

Editorials and Other Articles

- Anselin, L. "Introduction to the Special Issue Honoring the Memory of Raymond Florax." *International Regional Science Review*, 43 (1-2), 2020: 3-5.
- Anselin, L. "In Memoriam: Walter Isard (1919-2010) and Andrew M. Isserman (1947-2010)." *International Regional Science Review* 34: 395-396, 2011.
- Anselin, L., R. Capello, H. Folmer, and Y. Higano. "Editorial: The Raison d'être of Letters in Spatial and Resource Sciences," *Letters in Spatial and Resource Sciences* 1:1–2, 2008.
- Anselin, L. "Editorial," *Papers in Regional Science* 74 (4), 1995: 295–296.
- Anselin, L. "Introduction to Theme Issue on Regional Disparities," *Papers in Regional Science* 74 (2), 1995: 87.
- Anselin, L. "Editorial," *Papers in Regional Science* 74 (1), 1995: 1.
- Anselin, L. "Introduction to Theme Issue on Migration," *Papers in Regional Science* 73 (3), 1994: 205.
- Anselin, L. "Editorial," *Papers in Regional Science* 73 (1), 1994: 1.
- Anselin, L. "Editorial," *Papers in Regional Science* 72 (1), 1993: 1–2.
- Anselin, L. "Zero Growth II," *Intermediair* 12 (15), August 1977: 5–9 (in Dutch).
- Anselin, L. "Zero Growth I," *Intermediair* 12 (14), July 1977: 12–15 (in Dutch).

Software

- Anselin, L., X. Li and J. Koschinsky, *GeoDa, Open Source Software for Exploratory Spatial Data Analysis*, Center for Spatial Data Science, University of Chicago, 2016 (1.8), 2017 (1.10,1.12), 2018 (1.12.161), 2020 (1.14), 2022 (1.16, 1.18, 1.20)
- Anselin, L., M. McCann, with others, *GeoDa, Open Source Software for Exploratory Spatial Data Analysis*, GeoDa Center for Geospatial Analysis and Computation, Arizona State University, 2009 (beta), 2010 (1.0), 2012 (1.2), 2013 (1.4), 2015 (1.6).
- Anselin, L., S. Rey, P. Amaral, D. Arribas-Bel, D. Folch, with others, *GeoDaSpace, Software for Modern Spatial Econometrics*, GeoDa Center for Geospatial Analysis and Computation, Arizona State University, 2012-present (current version 0.8).
- Rey, S., L. Anselin, with others, *PySAL, A Python Library for Spatial Analysis*, GeoDa Center for Geospatial Analysis and Computation, Arizona State University, 2009-present (current version 1.5).
- Anselin, L. and I. Syabri, *GeoDa, Software for Exploratory Spatial Data Analysis*, Spatial Analysis Laboratory and Center for Spatially Integrated Social Science

(CSISS), Department of Agricultural and Consumer Economics, University of Illinois, Urbana-Champaign, 2003.

- Anselin, L. *SpaceStat*, National Center for Geographic Information and Analysis (NCGIA), University of California, Santa Barbara, 1992.

Software Manuals and Tutorials

- Rey, S., L. Anselin, X. Li and J. Koschinsky. *Guide to Using the Crime Analytics for Space-Time (CAST) Desktop Software Program*. Technical Report, GeoDa Center for Geospatial Analysis and Computation, Arizona State University, February 2013.
- Anselin, L., P. Amaral, D. Arribas-Bel. *Technical Aspects of Implementing GMM Estimation of the Spatial Error Model in PySAL and GeoDaSpace*. Technical Report, GeoDa Center for Geospatial Analysis and Computation, Arizona State University, December 2012.
- Anselin, L. *Spatial Regression Analysis in R, A Workbook*, Spatial Analysis Laboratory and Center for Spatially Integrated Social Science (CSISS), Department of Geography, University of Illinois, Urbana-Champaign, (revised) May 2007.
- Anselin, L. *Exploring Spatial Data with GeoDa: A Workbook*, Spatial Analysis Laboratory and Center for Spatially Integrated Social Science (CSISS), Department of Geography, University of Illinois, Urbana-Champaign, March 2005.
- Anselin, L. *GeoDa 0.9.5-I Release Notes*, Spatial Analysis Laboratory and Center for Spatially Integrated Social Science (CSISS), Department of Agricultural and Consumer Economics, University of Illinois, Urbana-Champaign, January 2004.
- Anselin, L. *GeoDa 0.9 User's Guide*, Spatial Analysis Laboratory and Center for Spatially Integrated Social Science (CSISS), Department of Agricultural and Consumer Economics, University of Illinois, Urbana-Champaign, 2003.
- Anselin, L. and O. Smirnov. *SpaceStat Extension for ArcView 3.0*, Regional Research Institute, West Virginia University, 1997 (Version 1.0), 1998 (Version 1.5).
- Anselin, L. and S. Bao. *SpaceStat.apr User's Guide*, Research Paper 9628, Regional Research Institute, West Virginia University, 1996.
- Anselin, L. *Spatial Data Analysis Workbook Using SpaceStat and ArcView*, Research Paper 9615, Regional Research Institute, West Virginia University, 1996.
- Anselin, L. *SpaceStat Version 1.80 User's Guide*, Regional Research Institute, West Virginia University, 1995.
- Anselin, L. *SpaceStat Version 1.50: Revision Notes*, Research Paper 9428, Regional Research Institute, West Virginia University, 1994.
- Anselin, L. *SpaceStat Tutorial: A Workbook for Using SpaceStat in the Analysis of Spatial Data*. Technical Software Series S-92-1, National Center for Geographic Information and Analysis (NCGIA), University of California, Santa Barbara, 1992.
- Anselin, L. *Spatial Regression Analysis on the PC: Spatial Econometrics Using GAUSS*. Department of Geography, University of California, Santa Barbara, 1989.

- Anselin, L. *Gaucho Impacts: An Interactive PC Program to Assess the Economic Impacts of UCSB Enrollment Scenarios on the Santa Barbara Region*, University of California, Santa Barbara, June 1988.
- Anselin, L. *MicroQAP: a Microcomputer Implementation of Generalized Measures of Spatial Association*, Working Paper, Department of Geography, University of California, Santa Barbara, Aug. 1986.
- Anselin, L. "The Use of Spreadsheet Software for Benefit-Cost Analysis." In Short Course Booklet, *Microcomputers in City and Regional Planning and Landscape Architecture*, The Ohio State University, Department of City and Regional Planning, Columbus, OH, Nov. 1984: 37–56.
- Anselin, L. *Computer Routines for Estimation and Specification Tests in Spatial Autoregressive Models*. The Ohio State University, Department of City and Regional Planning Working Paper W84–15, Sept. 1984.
- Anselin, L. *Guidelines for the Use of Program TREE, the Analytic Hierarchy Process for Project Evaluation*. The Ohio State University, Department of City and Regional Planning Working Paper W83–5, May 1983.

Proceedings Articles

- Li, X., W. Li, L. Anselin, S. Rey and J. Koschinsky. "A Map-Reduce Algorithm to Create Contiguity Weights for Spatial Analysis of Big Data." In Proceedings of the 3rd ACM SIGSPATIAL International Workshop on Analytics for Big Geospatial Data, Dallas, TX, Nov. 4, 2014.
- Li, W., S. Rey and L. Anselin. "SAM: A Provenance Model for Spatial Analytical Methods." In 8th International Conference on Geographic Information Science, Vienna, Austria, Sept. 24-26, 2014.
- Rey, S., L. Anselin and M. Hwang. "Manipulation of Spatial Weights Using Web Services," in *Proceedings of the 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2009)*, Seattle, WA, Nov. 4–6, 2009, pp. 72-80.
- Anselin, L. and M. McCann. "OpenGeoDa, Open Source Software for the Exploration and Visualization of Geospatial Data," in *Proceedings of the 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2009)*, Seattle, WA, Nov. 4–6, 2009, pp. 550-551.
- Anselin, L., Y-W Kim and I. Syabri. "Web-Based Spatial Analysis Tools for the Exploration of Spatial Outliers," in *GI/Science 2002*, The Second International Conference on Geographic Information Science, Boulder, CO, Sept. 25-28, pp. 12–15, 2002.
- Anselin, L., I. Syabri and O. Smirnov. "Visualizing Multivariate Spatial Correlation with Dynamically Linked Windows," in L. Anselin and S. Rey (Eds.), *New Tools for Spatial Data Analysis: Proceedings of a Workshop*. Center for Spatially Integrated Social Science, University of California, Santa Barbara, May 2002 (CD-ROM).
- Anselin, L., I. Syabri, O. Smirnov, Y. Ren. "Visualizing Spatial Autocorrelation with Dynamically Linked Windows." In *Computing Science and Statistics* 33, Proceedings of Interface 01, Orange County, CA, June 13–16, 2001 (CD-ROM).
- Bao, S. and L. Anselin. "Spatial Data Analysis with Spatial Statistics and GIS." In *Proceedings of the International Symposium on Geoinformatics and Socioinformatics, and Geoinformatics '99*, University of Michigan, Ann Arbor, June 19–21, 1999 (CD-ROM).

- Bao, S. and L. Anselin. "Linking Spatial Statistics with GIS: Operational Issues in the SpaceStat-ArcView Link and the S+Grassland Link." In *ASA Proceedings of the Section on Statistical Graphics*. Alexandria, American Statistical Association, 1998: 61–66.
- Anselin, L. and A. Can. "Spatial Effects in Models of Mortgage Origination." In *Proceedings of the 1998 Annual Mid Year Meeting of the American Real Estate and Urban Economics Association*. Washington, DC, May 26–27, 1998. National Association of Home Builders.
- Anselin, L. "Computational Frameworks for Exploring Spatial Data," In *Proceedings of the Workshop on Strategies for Data Analysis*, Augsburg University, Augsburg, October 10–12, 1996 (CD-ROM).
- Anselin, L., A. Bera, R. Florax and M. Yoon. "Simple Diagnostic Tests for Spatial Dependence." In C. R. McKenzie (Ed.), *Proceedings of the Osaka Econometrics Conference*, Osaka, August 30–31, 1995, Faculty of Economics, Osaka University, 1995, pp. 287–309.
- Deichmann, U. and L. Anselin. "Exploratory Spatial Data Analysis of Categorical Variables: An Application to African Farming Systems Data." In J. Harts, H. Ottens and H. Scholten (Eds.), *EGIS/MARI '94 Conference Proceedings*, Fifth European Conference on Geographical Information Systems, 1994, pp. 2107–2116.
- Deichmann, U., M.F. Goodchild and L. Anselin. "Dealing with Errors in Socio-Economic Databases: Selected Findings of a National Research Initiative," *Proceedings Symposium 91, Spatial Issues in Statistics*, Statistics Canada, Ottawa, 1992, pp. 153–162.
- Deichmann, U., L. Anselin and M.F. Goodchild, "Estimation Issues in the Areal Interpolation of Socioeconomic Data," *EGIS '92 Conference Proceedings*, Third European Conference on Geographical Information Systems, 1992, pp. 254–263.
- Anselin, L. and A. Can. "Sensitivity Analysis of Estimates for Urban Density Functions." In W. Vogt and M. Mickle (Eds.) *Proceedings of the Pittsburgh Conference on Modeling and Simulation* 16, 1985: 167–173.
- Anselin, L. "A Decision Support Framework for Regulatory Evaluation of Electric Utility Performance." In R. Lawton (Ed.), *Proceedings of the Fourth NARUC Biennial Regulatory Information Conference*, The National Regulatory Research Institute, Columbus, OH, 1984: 997–1007.
- Anselin, L. "Specification of the Weight Structure in Spatial Autoregressive Models, Some Further Results." In W. Vogt and M. Mickle (Eds.) *Proceedings of the Pittsburgh Conference on Modeling and Simulation* 15, 1984: 99–103.
- Anselin, L. and E. Talen. "A Structured Approach to the Selection of Potential Historic Districts in Twentieth Century Neighborhoods." In W. Vogt and M. Mickle (Eds.) *Proceedings of the Pittsburgh Conference on Modeling and Simulation* 15, 1984: 145–149.
- Can, A. and L. Anselin. "An Empirical analysis of the Determinants of the First Stage in a Residential Movement Decision Process." In W. Vogt and M. Mickle (Eds.) *Proceedings of the Pittsburgh Conference on Modeling and Simulation* 15, 1984: 371–375.
- Anselin, L. and E.G. Arias. "A Policy Analysis Simulation Game for Urban Growth Management Decisions." In W. Vogt and M. Mickle (Eds.) *Proceedings of the Pittsburgh Conference on Modeling and Simulation* 14, 1983: 701–706.
- Anselin, L. and E.G. Arias. "A Modular Integrated Framework for Impact Assessment and Policy Analysis for Cities." In W. Vogt and M. Mickle (Eds.)

Proceedings of the Pittsburgh Conference on Modeling and Simulation 13, 1982: 973–978.

- Anselin, L. "Small Sample Properties of Estimators for the Linear Model with a Spatial Autoregressive Structure in the Disturbance." In W. Vogt and M. Mickle (Eds.) *Proceedings of the Pittsburgh Conference on Modeling and Simulation* 12, 1981: 899–904.
- Anselin, L. and E.G. Arias. "A Microsimulation Approach to Intra-Urban Residential Movement: A Conceptual Framework." In W. Vogt and M. Mickle (Eds.) *Proceedings of the Pittsburgh Conference on Modeling and Simulation* 12, 1981: 999–1004.

Technical Reports

- Griswold, N., B. Calnin, M. Schramm, L. Anselin, and P. Boehnlein. *Estimating the Effect of Demolishing Distressed Structures in Cleveland, OH, 2009-2013*. Report to the Western Reserve Land Conservancy, Cleveland, OH, Jan. 2014.
- Anselin, L. *GMM Estimation of Spatial Error Autocorrelation with and without Heteroskedasticity*. Technical Report, GeoDa Center for Geospatial Analysis and Computation, Arizona State University, July 2011.
- Anselin, L. Geospatial Analysis. In *New Research Directions for the National Geospatial-Intelligence Agency*. Workshop Report, pp. 57-72. The National Academies Press, Washington, D.C., 2010.
- Lozano-Gracia, N. and L. Anselin. *The Price is Right: Improving Estimates of Cadastral Values in Bogota, Colombia Through Submarket Definition*. Report to Lincoln Institute of Land Policy, Cambridge, MA, March 2010.
- Anselin, L., W. D. Meyer, L. A. Whalley and M. J. Savoie. *Actionable Cultural Understanding for Support to Tactical Operations (ACUSTO). Toward a New Methodological Template for Spatial Decision Support Systems*. ERDC/CERL TR-09-13, Construction Engineering Research Laboratory, U.S. Army Corps of Engineers, Washington, D.C., 2009.
- Smith, M., L. Anselin, J. Koschinsky. *Food Security in Colombia*. Report to Construction and Engineering Research Laboratory, US Army Corps of Engineers, Champaign, IL, December 2009.
- Anselin, L. and G. Piras. *Approaches Towards the Identification of Patterns in Violent Events, Baghdad, Iraq*. Report to Construction Engineering Research Laboratory, US Army Corps of Engineers, Champaign, IL, March 2009.
- Galvis, L. and L. Anselin. *Uncertainty in Location and the Identification of Hot Spots in Violent Events*. Report to Construction Engineering Research Laboratory, US Army Corps of Engineers, Champaign, IL, January 2009.
- Anselin, L. *Geospatial Evidential Reasoning Models*. Report to Construction Engineering Research Laboratory, US Army Corps of Engineers, Champaign, IL, March 2008.
- Anselin, L. and N. Lozano-Gracia. *Valuation of Change in Access to Water, A Simulation Approach with Application to Bhopal and Bangalore*. Report to Development Research Group (DECRG), The World Bank, June 2007.
- Anselin, L. and N. Lozano-Gracia. *Spatial Hedonic Analysis for Bhopal and Bangalore*. Report to Development Research Group (DECRG), The World Bank, June 2007.
- Anselin, L. and N. Lozano-Gracia. *Exploratory Spatial Data Analysis of the Housing Markets in Bhopal and Bangalore*. Report to Development Research Group (DECRG), The World Bank, May 2007.

- Anselin, L. *Final Report, TS-1125, Prostate Cancer ESDA and Spatial Statistics*, Spatial Analysis Laboratory, University of Illinois, Urbana-Champaign, IL, April 2006.
- Anselin, L., N. Lozano, J. Koschinsky. *Rate Transformations and Smoothing*, Spatial Analysis Laboratory, University of Illinois, Urbana-Champaign, IL, Jan. 2006.
- Anselin, L. *Review of Cluster Analysis Software*, North American Association of Central Cancer Registries, Springfield, IL, Sept. 2004.
- Anselin, L. *Final Report on the Specialist Meeting on Spatial Externalities*, Center for Spatially Integrated Social Science (CSISS), University of California, Santa Barbara, CA, May 2001.
- Anselin, L. and D. Laundermilch. *Spatial Association and Clusters of Rural Area Employment*, Bruton Center for Development Studies, University of Texas at Dallas, Dec. 1998.
- Claar, V., L. Anselin, and P. Shapira. *Survey of West Virginia Manufacturers' Technology Use, 1997*, Regional Research Institute, West Virginia University, June 1998.
- Anselin, L. *Spatial Patterns in Appalachian Growth and Development*, Research Paper 9512, Regional Research Institute, West Virginia University, 1995.
- Anselin, L., S. Hudak, and R. Dodson. *Spatial Data Analysis and GIS: Interfacing GIS and Econometric Software*. Technical Report 93-7, National Center for Geographic Information and Analysis (NCGIA), University of California, Santa Barbara, 1993.
- Anselin, L. and S. Rey. *The Performance of Tests for Spatial Dependence in a Linear Regression*. Technical Report 91-13, National Center for Geographic Information and Analysis (NCGIA), University of California, Santa Barbara, May 1991.
- Anselin, L. *Importance of Spatial Effects in Applied Regression Analysis*, Final Report to the National Science Foundation, Department of Geography, University of California, Santa Barbara, May 1991.
- Anselin, L., with S. Rey and U. Deichmann. *The Application of an Integrated Multiregional Input-Output and Econometric Modeling Framework to California Water Resources Problems*, Final Report to the University of California Water Resources Center, Community and Organization Research Institute (CORI), University of California, Santa Barbara, December 1989.
- Anselin, L. *Robust Estimation, Qualitative Analysis and Model Validation in Spatial Econometrics*, Final Report to the National Science Foundation, Department of Geography Research Office, University of California, Santa Barbara, June 1989.
- Anselin, L. *Final Report on Economic Impacts of the University of California, Santa Barbara Development Scenarios*, UCSB, June 1988.
- Anselin, L., with P. Krsnak, S. Rey. *Economic Impacts of the University of California, Santa Barbara on the Region: An Input-Output Approach*, Interim Report to UCSB, August 1987.
- Anselin, L., with P. Krsnak, S. Rey. *Economic Impacts of Alternative Development Scenarios for the University of California, Santa Barbara*, Interim Report to UCSB, June 1987.
- Anselin, L. *Specification Tests and Model Selection for Spatial Interaction and the Structure of Spatial Dependence*, Final Report to the National Science Foundation, The Ohio State University Research Foundation, Dec. 1985.
- Anselin, L. and J.S. Henderson. *A Decision Support System for Electric Utility Performance Evaluation*, Final Report, The National Regulatory Research Institute, Columbus, OH, March 1985.

- Anselin, L. *Downtown Menomonie Development Strategies*, Report to the Downtown Alliance for Development, Inc. (DADI), Menomonie, WI, Feb. 1985.
- Anselin, L. *Project and Plan Evaluation Techniques*. The Ohio State University, Department of City and Regional Planning Working Paper W83-7, July 1983, pp. 32 (Also a Chapter in American Institute of Certified Planners (AICP) Training Manual, The Ohio State University, Department of City and Regional Planning).
- Anselin, L., E.G. Arias, with others. *Integrated Growth Management Framework for Central City Development*. Report to the Department of Development, City of Columbus, Ohio, May 1982.
- Anselin, L., L.M. Pike, and G.L. Smith Jr. *Final Report on Approaches to Measuring Electric Utility Performance*, Columbus, Oh, The National Regulatory Research Institute, Dec. 1981.
- Gordon, S., L. Anselin, with others. *Economic Development in Ohio: Problems and Prospects*, Report to the Economic Development Advisory Committee, Ohio Legislature, July 1981.
- Gordon, S., L. Anselin, with others. *High Technology Industry, Port Development and Economic Development in Ohio*, Report to the Subcommittee on Port Authority, Industrial Development and Construction, Ohio Legislature, July 1981.
- Gordon, S., L. Anselin, with others. *Finance and Venture Capital*, Report to the Subcommittee on Finance and Venture Capital, Ohio Legislature, July 1981.
- Isard, W. and L. Anselin. *Crude Operational Multi-Region Models for Identification of Integrated Interindustry, Employment and Environmental Affairs*, Report to Brookhaven National Laboratories, Oct. 1979.
- Anselin, L. and H. Glejser. *New Results with Respect to the Belgian Imports of Products which are of Great Importance to Developing Countries*, Report to the Association for the Study of International Labor and Income Distribution, May 1977 (in Dutch).

SELECTED CONFERENCE AND OTHER PRESENTATIONS

Keynotes and Distinguished Lectures

- Tobler Prize Award Lecture, Austrian Academy of Sciences, Vienna, March 15, 2023 (virtual): “*Tobler’s Law and the Challenge of Identifying Local Multivariate Clusters*”
- Keynote, International Symposium on Spatial Econometrics and Spatiotemporal Innovation, Beijing, July 17, 2021 (virtual): “*GeoDa: From the Desktop to an Ecosystem for Exploring Spatial Data*”
- Inaugural Lecture, North American Regional Science Council Summer Speakers Series, (virtual), July 14, 2020: “*Regional Science: Origins and Development – A Personal Perspective*”
- Keynote, Advanced Forum on Spatial Data Analytics for Social Sciences, Wuhan University, Wuhan, China, Dec. 14, 2019: “*Spatial Data Science in the Social Sciences: Concepts, Methods and Challenges*”
- Keynote, 21st European Colloquium on Theoretical and Quantitative Geography, Mondorf-les-Bains, Luxembourg, Sept 5-9, 2019: “*More LISA: Univariate and Multivariate Extensions*”

- Keynote, Third Symposium on Spatial Data Science and Policy Analysis, Peking University, Beijing, China, June 20, 2019: *“More LISA: Univariate and Multivariate Extensions”*
- Keynote, Fifth Workshop on Spatial Information Intelligent Service/Inauguration of the Geocomputation Center for Social Sciences, Wuhan University, Wuhan, China, Jan. 13, 2018: *“Spatial Data Science in a CyberGIS Era”*
- Keynote, 25th International Conference on Geoinformatics, Buffalo, NY, August 2, 2017: *“The Many Faces of Spatial Clustering”*
- 2017 Gerard Rushton Academic Excellence Lecture, University of Iowa, Iowa City, IA, April 14, 2017: *“LISA at 21”*
- 2nd Annual Getis-Ord Lecture in Spatial Analysis, Western Regional Science Association, San Diego, CA, Feb. 17, 2014: *“Big Data, Spatial Analysis and CyberGIScience”*
- Research Award Keynote, University Consortium for Geographic Information Science, George Mason University, Fairfax, VA, May 21-23, 2013: *“Towards a Semantically Enabled Spatial Analytical Workbench (SESAW)”*
- Keynote, Andrew Isserman Memorial Symposium, University of Illinois, Urbana-Champaign, Urbana, IL, Oct. 4, 2011: *“Andrew Isserman’s Regional Science”*
- Keynote Address, International Workshop on Cities, Globalization and Development, El Colegio Mexiquense, A.C., Toluca, Mexico, Sept. 21-22, 2011: *“From SpaceStat to CyberGIS, Twenty Years of Spatial Data Analysis Software”*
- Keynotes, Workshop on Advances in Spatial Statistics and Intelligence, Wuhan University, China, June 22-23, 2010: *“Advances in Spatial Econometrics, History, Current State of the Art and Future Directions,” “New Tools for the Analysis of Spatial Data”*
- Keynote, Geoinformatics 2010, Beijing, China, June 17-20, 2010: *“GeoDa and Beyond, Towards Cyberinfrastructure for Spatial Data Analysis”*
- 26th Annual Reginald Golledge Distinguished Lecture in Geography, Department of Geography, University of California, Santa Barbara, CA, May 7, 2009: *“Twenty Years Since Spatial Econometrics”*
- Keynote Address, Third World Congress of the Spatial Econometrics Association, Brooklyn, NY, Nov. 18–19, 2008: *“Spatial Econometrics, Twenty Years Later”*
- Keynote Address, Australian Research Council Research Network for Spatially Integrated Social Science (ARCNSISS), Methodology, Tools and Techniques Forum, Newcastle, Australia, June 5–6, 2008: *“Spatial Econometrics, Retrospect and Prospect,” “Spatial Econometrics: Models, Methods and Software”*
- Spatial Analysis and Modeling Plenary Lecture, 103rd Annual Meeting of the Association of American Geographers, San Francisco, CA, April 17–20, 2007: *“Spatial Econometrics, Retrospect and Prospect”*
- Alonso Award Address, 53rd Annual North American Meetings of the Regional Science Association International, Toronto, ON, Nov. 16–18, 2006: *“LISA...”*
- Inaugural Arthur Getis Lecture in Spatial Analysis, San Diego State University, San Diego, CA: October 7, 2005: *“A Look at 25+ Years of Spatial Econometrics: Past, Present and Future.”*

- Keynote Address Section on Methodology, American Sociological Association 2003 Annual Meeting, Atlanta, GA August 17–20, 2003: “*Networks, Multipliers and Spatial Externalities in Spatial Regression*”
- Joseph Havlicek Jr. Memorial Lecture in Applied Econometrics, Dept. of Agricultural, Environmental and Development Economics, The Ohio State University, Columbus, OH, April 25, 2002: “*Spatial Externalities, Spatial Multipliers and Spatial Econometrics*”
- Opening Plenary Address, International Symposium on Geoinformatics and Socioinformatics – Geoinformatics '99, Ann Arbor, MI, June 19–21, 1999: “*The Future of Spatial Analysis for the Social Sciences.*”
- Fifth Annual Demography Graduate Student Methodology Workshop, The Pennsylvania State University, State College, PA, May 19, 1998: “*Spatial econometric analysis of Amazon deforestation*”
- Hubert M. Blalock Jr. Memorial Lecture Series on Advanced Topics in Social Research, Interuniversity Consortium for Political and Social Research, University of Michigan, Ann Arbor, MI, Aug. 12, 1994: “*Spatial data analysis and GIS*”

Selected Presentations

- Spatial Study Group, Center for Spatial Data Science, University of Chicago, Chicago IL, February 21, 2023: “*Endogenous Spatial Regimes*” (with P. Amaral)
- Spatial Study Group, Center for Spatial Data Science, University of Chicago, Chicago IL, May 5, 2020: “*Tobler's Law in a Multivariate World, With Illustrations in GeoDa*”
- Colloquium, School of Geographical Sciences, Nanjing Normal University, Nanjing, China, Jan 8, 2020: “*Regional Science, Origins and Directions*”
- *Short Course on Recent Developments in Local Spatial Cluster Detection*, School of Geographical Sciences, Nanjing Normal University, Nanjing, China, Jan. 8-9, 2020.
- *Short Course on Recent Developments in Local Spatial Cluster Detection*, Geocomputation Center for Social Sciences, Wuhan University, Wuhan, China, Dec. 12-13, 2019.
- *Short Course on Spatial Clustering*, Peking University Graduate Summer School on Frontiers of Spatial Econometrics, Peking University, Beijing, China, June 17-19, 2019.
- Colloquium, School of Geographical Sciences, Nanjing Normal University, Nanjing, China, May 25, 2019: “*The Many Faces of Spatial Clustering*”
- Launching Ceremony of Innovation Center of 111 Plan for Capacity Building for Sustainable Discipline Development on Comprehensive Geographic Research, Nanjing Normal University, Nanjing, China, May 23-24, 2019: “*Research Topics in Applied Spatial Data Science and Economic Geography*”
- *GeoDa Training Workshop*, School of Geographical Sciences, Nanjing Normal University, Nanjing, China, May 22, 2019.
- Seminar, Institute for Public Health and Medicine, Northwestern University, April 25, 2019: “*The Many Faces of Spatial Clustering*”
- 114th Annual Meeting of the Association of American Geographers, Washington, DC, April 3-7, 2019: “*Persistent Neighborhood Diversity*” (with E. Talen); “*Local Patterns of Co-Location in the Retail Sector: A Descriptive Study of Spatial Firmography*” (with

I. Farah); “*Shedding Light on the Retail Apocalypse*” (with K. Credit, I. Farah and R. Manduca); Panel on “*Geospatial Data Science: Frontiers and Opportunities*”

- 65th Annual Meeting of the North American Regional Science Council, San Antonio, TX, Nov. 7-10, 2018: “*Sensitivity of Spatial Econometric Flow Models to Different Specifications*” (with P. Aroca and C. Chasco); “*The Death and Life of Mom and Pop: A Preliminary Analysis of Small-Scale Retail in Chicago*” (with E. Talen, K. Credit, I. Farah)
- Conference, Does Main Street Have a Future? Reconsidering Retail in the Era of Chain Stores and E-Commerce, University of Chicago, Chicago, IL, Nov. 1-2, 2018: “*The Death and Life of Mom and Pop: A Preliminary Analysis of Small-Scale Retail in Chicago*” (with E. Talen, K. Credit, I. Farah)
- 58th Annual ACSP Conference, Buffalo, NY, Oct 25-28, 2018: “*Shedding Light on the Retail Apocalypse*” (with K. Credit, I. Farah and R. Manduca); “*The Death and Life of Mom and Pop: A Preliminary Analysis of Small Scale Retail in Chicago*” (with E. Talen, K. Credit, I. Farah).
- *Short Course on Spatial Econometrics*, Summer School in Spatial Analysis, Peking University, Beijing, China, June 4-6, 2018.
- *GeoDa Training Workshop*, College of Urban Planning and Public Affairs, University of Illinois, Chicago, IL, April 27, 2018.
- Workshop on Quantitative Methods in Education, Health and Social Sciences, QMHS, University of Chicago, Chicago, IL, April 13, 2018: “*More LISA, Multivariate Extensions*”
- Colloquium, College of Urban Planning and Public Affairs, University of Illinois, Chicago, IL, April 6, 2018: “*More LISA, Multivariate Extensions*”
- Colloquium, Department of Geography, University of California, Santa Barbara, CA, March 15, 2018: “*More LISA, Multivariate Extensions*”
- 57th Annual Meeting of the Western Regional Science Association, Pasadena, CA, Feb. 11-14, 2018: “*A Spatial Perspective on the Econometrics of Program Evaluation*” (with M. Kolak)
- Carto, Brooklyn, NY, Feb. 9, 2018: “*More LISA, Multivariate Extensions*”
- 64th Annual Meeting of the North American Regional Science Council, Vancouver, BC, Nov. 8-11, 2017: “*A Spatial Perspective on the Econometrics of Program Evaluation*” (with M. Kolak)
- Summer School in Spatial Analysis, Peking University, Beijing, China, June 18-21, 2017: “*The Many Faces of Spatial Clustering*”, “*Spatial Econometrics I*”, “*Spatial Econometrics II*”, “*Spatial Data Science in a CyberGIS Era*”
- Workshop, NORC IdeaLabs, Chicago, IL, June 1, 2017: “*Exploring Geospatial Data With GeoDa*”, “*Spatial Econometrics with GeoDa and GeoDaSpace*”
- Guest Lectures, UCGIS Summer School 2017, Collaborative Problem Solving with CyberGIS and Geospatial Data Science. NCSA, Urbana, IL, May 18-19, 2017: “*Spatial Data Science in a CyberGIS Era*”, “*Spatial Analytics in the Cloud with GeoDa-Web*”
- Guest Lectures, Spatial Data Analysis in Practice, Royal Institute of Technology, Stockholm, Sweden, May 11-12, 2017: “*Beyond GeoDa, Modern Spatial Econometrics with GeoDaSpace*”, “*The Many Faces of Spatial Clustering*”

- Mind Bytes, University of Chicago Research Computing Center, Chicago, IL, May 2, 2017: *"Spatial Analytics in the Cloud with GeoDa Web"*
- Third Coast Center for AIDS Research (CFAR), Chicago, IL, April 21, 2017: *"The University of Chicago Center for Spatial Data Science, GeoDa and GeoDa Web"*
- 112th Annual Meeting of the Association of American Geographers, Boston, MA, April 4-9, 2017: *"Persistent Integration: An Exploration of Economically Diverse Neighborhoods in Chicago, 1940 to 2010"* (with E. Talen), *"Missing Values in a Dynamic Exploratory Spatial Data Analysis (ESDA) Software Environment"* (with X. Li and J. Koschinsky), Panel on *"Geographic Data Science"*
- Department of Geography, University of California, Santa Barbara, CA, March 6, 2017: Short Course on *"Spatial Regression Analysis with GeoDaSpace"*
- Argonne National Laboratory, Argonne, IL, Dec 6, 2016: *"The University of Chicago Center for Spatial Data Science – GeoDa and GeoDa-Web"*
- Chicago Department of Public Health, Chicago, IL, Oct 14, 2016: *"The Center for Spatial Data Science – GeoDa and GeoDa-Web"*
- Computational Social Science Workshop, University of Chicago, Chicago, IL, Oct 13, 2016: *"GeoDa, Exploring Spatial Data"*
- Big Questions, Big Data, and Big Computation – B³, Frontiers of Computational Social Science, Chicago IL, Oct 3, 2016: *"Big Data and Spatial Data Science"*
- Colloquium, Regional Research Institute, Morgantown, WV, March 10, 2016: *"Spatial Data Science in a CyberGIS Era"*
- 62nd Annual Meeting of the North American Regional Science Council, Portland, OR, Nov. 11-14, 2015: *"Computational Issues in Conditional Permutation Inference for LISA"* (with S. Rey and J. Laura); *"A Spatial-Temporal Treatment Effects Analysis, The Hardest Hit Funds Blight Elimination Program in Detroit"* (with N. Griswold and B. Calnin)
- Interface 2015, 45th Symposium on the Interface, Computing Science and Statistics, Morgantown, WV, June 10-13, 2015: *"GeoDa Web, Enhancing Web-Based Mapping with Spatial Analytics"* (with X. Li and J. Koschinsky)
- Colloquium, Computation Institute, University of Chicago, Chicago, IL, May 11, 2015: *"Spatial Data Science in a CyberGIS Era"*
- 110th Annual Meeting of the Association of American Geographers, Chicago, IL, April 21-25, 2015: *"Digital Neighborhoods"* (with S. Williams), *"Computational Issues in Conditional Permutation Inference for LISA"* (with S. Rey and J. Laura)
- Colloquium, Department of Sociology, University of Chicago, Chicago, IL, Jan. 12, 2015: *"Spatial Data Science"*
- Workshop on Bringing Social Science Back In: the Big Data Revolution and Urban Theory, Radcliffe Institute for Advanced Study, Harvard University, Cambridge, MA, Dec. 15-16, 2014: *"Spatial Data Science for an Enhanced Understanding of Urban Dynamics"*
- 61st Annual Meeting of the North American Regional Science Council, Washington, DC, Nov. 12-15, 2014: *"Digital Neighborhoods"* (with S. Williams); *"The Many Faces of Spatial Regression in PySAL"* (with S. Rey et al.)
- Workshop on Spatial Informatics, Faculty of the Built Environment, University of New South Wales, Sydney, Australia, Oct. 23, 2014: *"Spatial Analysis for Urban Informatics"*

- Colloquium, Faculty of the Built Environment, University of New South Wales, Sydney, Australia, Oct. 21, 2014: *"Digital Neighborhoods"*
- 2nd Annual Meeting of the Urban Sciences Research Coordination Network, Chicago, IL, June 11, 2014: *"Spatial Analytics for Urban Sciences"*
- 2014 University of Chicago Urban Forum, Chicago, IL, April 24, 2014: *"Digital Neighborhoods"* (with S. Williams)
- Mapping Sciences Committee, National Research Council, Washington, D.C., Dec. 17, 2013: *"CyberGIS"*
- Lunch and Learn Lecture, Boston Center for Knowledge and Analytics, Boston Consulting Group, Boston, MA, Dec. 5, 2013: *"Space and Big Data Analytics: Concepts and Tools"*
- Colloquium, geography@Harvard, Center for Geographic Analysis, Harvard University, Cambridge, MA, Dec. 4, 2013: *"Software Tools for Modern Spatial Econometrics"*
- Short Course, Population Studies and Training Center, Brown University, Providence, RI, Nov. 22, 2013: *"Introduction to GeoDa"*
- Department of Geography, University of Connecticut, Storrs, CT, Nov. 8, 2013: *"Software Tools for Modern Spatial Econometrics"*
- Department of Urban Studies and Planning, Massachusetts Institute of Technology, Cambridge, MA, Oct. 8, 2013: *"Software Tools for Modern Spatial Econometrics"*
- CyberGIS '13, Seattle, WA, Sept. 15-17, 2013: *"CyberGIS Integration of PySAL (CGPySAL): A Case Study of Spatial Regression Capabilities"* (with M. Hwang, Y. Liu, A. Padmanabhan, S. Rey and S. Wang); *"Metadata and Provenance for Spatial Analysis, the Case of Spatial Weights"* (with S. Rey and W. Li); *"Local Moran's I within the CyberGIS Framework Based on PySAL for the Analytics and the CSF for Visualization and Workflow Management"* (with R. Pahle and S. Rey); *"The Science of CyberGIS"* (panel)
- Colloquium, Spatial Structures in the Social Sciences (S4), Brown University, Providence, RI, Sept. 13, 2013: *"User-Friendly Software Tools for Modern Spatial Econometrics"*
- Scenes Working Group, Department of Sociology, University of Chicago, Chicago, IL, July 31, 2013: *"Local Indicators of Spatial Autocorrelation"*
- Stakeholders Dinner Presentation, Western Reserve Land Conservancy/Thriving Cities Institute, Cleveland, OH, July 30, 2013: *"The Importance of a Spatial Perspective in Demolition Research"*
- Short Course, Western Reserve Land Conservancy, Cleveland, OH, July 30, 2013: *"Introduction to GeoDa"*
- 109th Annual Meeting of the Association of American Geographers, Los Angeles, CA, April 8-12, 2013: *Panel, Author meets the Critics, Robert Sampson, Great American City; Spatio-Temporal Thinking*; *"Metadata and Provenance for Spatial Analysis: The Case of Spatial Weights"* (with S. Rey and W. Li)
- GIScience 2012, Columbus, OH, Sept. 18-21, 2012: Tutorial on *"PySAL and GeoDaSpace"* (with S. Rey), *"CyberGIS and Big Data, a Spatial Analytical Perspective"*
- CyberGIS '12, Urbana-Champaign, IL, Aug 6-9, 2012: *"Spatial Analysis in CyberGIS: Towards a Spatial Econometrics Workbench"* (with S. Rey and M. Hwang)

- Short Course, "Spatial Regression," July 30-Aug 2, 2012, Chicago, IL.
- Short Course, "Spatial Autocorrelation," July 25-27, 2012, Chicago, IL.
- Summer School of Spatial Econometrics Advanced Institute, University of Roma, La Sapienza, Rome, Italy, May 21-25, 2012: "Spatial Econometrics I"
- 2012 University of Chicago Urban Forum, Chicago, IL, May 19, 2012: "Spatial Analysis for Local Area Processes"
- NRC Mapping Sciences Committee, Washington, DC, April 19, 2012: "Open GIS, an Academic Perspective"
- 108th Annual Meeting of the Association of American Geographers, New York, NY, Feb. 23-28, 2012: "Parallelizing PySAL" (with S. Rey, R. Pahle and X. Kang), "Spatio-Temporal Econometrics," "Spatial Analysis in CyberGIS, Progress and Roadmap," "Spatial Econometrics in an Age of CyberGIS" (with S. Rey)
- Short Course, "Introduction to Spatial Analysis with OpenGeoDa," Dec. 4-7, 2011, Tempe, AZ.
- Colloquium, Department of City and Regional Planning and Department of Geography, The Ohio State University, Columbus, OH, Oct 31, 2011: "From SpaceStat to CyberGIS"
- Colloquium, Department of Urban Studies and Planning, Massachusetts Institute of Technology, Cambridge, MA, Sept. 29, 2011: "The Future of Spatial Analysis, Visualization and GIS in Planning"
- 107th Annual Meeting of the Association of American Geographers, Seattle, WA, April 12-17, 2011: "Spatial Analysis and CyberGIS," "GeoDaSpace, a Tool for Modern Spatial Econometrics" (with D. Folch and D. Arribas-Bel), "Evaluating Usability of a Web Application for Local Spatial Autocorrelation" (with M. Hwang), "Andrew Isserman Memorial" (Panel Organizer and Chair)
- Risk Prediction Workshop, Department of Homeland Security, Washington, DC, Dec. 8-9, 2010: "Spatial Exploration, Explanation and Decision Support"
- 57th Annual North American Meetings of the Regional Science Association International, Denver, CO, Nov. 11-13, 2010: "Spatial Econometrics with PySAL and GeoDaSpace" (with S. Rey)
- 3rd Annual Research Conference, Triangle Census Research Data Center (TCRDC), Research Triangle Park, NC, Oct 19-20, 2010: "Using OpenGeoDa for Spatial Analysis"
- 51st Annual Conference, Association of Collegiate Schools of Planning, Minneapolis, MN, October 7-10, 2010: "Where do Planners Belong? Assessing the Relationship Between Planning and Design in American Universities" (with J. Nasar and E. Talen)
- Colloquium, Laboratory for Urban and Regional Analysis, East China University of Science and Technology, Shanghai, China, June 25, 2010: "Spatial Analysis of Hedonic House Price Models"
- 106th Annual Meeting of the Association of American Geographers, Washington, DC, April 14-18, 2010: "OpenGeoDa, An Open Source Tool for Geovisualization and Exploration" (with M. McCann), "PySAL, A Python Library for Spatial Analysis and Geocomputation" (with S. Rey), "A Tribute to Reginald Golledge" (Panel)
- NSF Teragrid Workshop on CyberGIS, Washington, DC, Feb. 2-3, 2010: "A Spatial Econometrics Workbench"

- Workshop, Construction Engineering Research Laboratory, U.S. Army, Champaign, IL, Dec. 11, 2009: “*A Web-Based Electronic Atlas to Analyze Food Security in Bogota, Colombia*”
- Workshop, Research Triangle Institute International, Research Triangle Park, NC, May 12, 2009: “*New Tools for Spatial Econometrics Analysis: GeoDaSpace and GeoDaWeights*”
- Fellows Colloquium, Research Triangle Institute International, Research Triangle Park, NC, May 11, 2009: “*GeoDa and Beyond: Towards Cyberinfrastructure for Spatial Data Analysis*”
- Brown Bag Colloquium, Department of Geography, University of California, Santa Barbara, CA, May 8, 2009: “*PySAL and GeoDaSpace: New Tools for Spatial Data Analysis*”
- Methods of Analysis Program in the Social Sciences (MAPSS) Colloquium, Stanford University, Palo Alto, CA, April 16, 2008: “*OpenGeoDa, PySAL and GeoDaSpace, New Tools for the Analysis of Spatial Data*”
- 105th Annual Meeting of the Association of American Geographers, Las Vegas, NV, March 23–27, 2008: “*PySAL, a Python Library for Spatial Analytical Functions*” (with S. Rey); “*Advanced Spatial Econometrics with PySpace*” (with N. Lozano, C. Schmidt); “*Dynamic Manipulation of Spatial Weights using PySAL and Web Services*” (with S. Rey, M. Hwang); “*An Implementation of Spatial and Aspatial Linkages in PySAL*” (with S. Rey, D. Folch); “*OpenGeoDa, a Crossplatform Tool for Geovisualization and Exploration*” (with I. Syabri, M. McCann); “*Implementing Network Models in Python*” (with A. Winslow)
- StratAG Spatial Algorithms Strand Kick-off Meeting, National Center for Geocomputation, National University Ireland, Maynooth, Ireland, Jan 29–30, 2009: “*A New Algorithm for Evaluating Network Distance on Incomplete Networks*” (with A. Winslow)
- NCGIA 20th Anniversary Reunion, International Symposium on Geographic Information Science, Santa Barbara, CA, Dec. 11–12, 2008: “*Future Directions in GIScience*”
- 55th Annual North American Meetings of the Regional Science Association International, Brooklyn, NY, Nov. 20–22, 2008: “*Twenty Years of Spatial Econometrics*”
- Decision Center for a Desert City, NSF Site Visit, Tempe, AZ, Sept. 9, 2008: “*Towards Spatially Explicit Simulations*”
- Short Course, Third PREPARE Summer Institute, University of Pecs, Pecs, Hungary, July 6–15, 2008: “*Spatial Econometrics*”
- International Seminar, School of Architecture, Planning and Policy Development, Institute of Technology Bandung, Bandung, Indonesia, June 10–11, 2008: “*What is Special About Spatial, Spatial Thinking and Spatial Econometrics*,” “*Mapping and Analysis for Spatial Social Science*”
- Fellows Colloquium, Research Triangle Institute International, Research Triangle Park, NC, May 2, 2008: “*Valuing Access to Water: A Spatial Hedonic Approach, with an Application to Indian Cities*”
- Workshop, Research Triangle Institute International, Research Triangle Park, NC, May 1, 2008: “*GeoDa: An Introduction to Spatial Data Analysis*”

- 104th Annual Meeting of the Association of American Geographers, Boston, MA, April 15–19, 2008: “*GeoDa and Beyond: Towards Cyberinfrastructure for Spatial Data Analysis*” (with M. Hwang); “*An Ontology for Spatial Data Analytical Web Services*” (with M. Hwang)
- Spatial Socio-Cultural Knowledge Workshop, Royal United Services Institute, Whitehall, London, UK, March 27–28, 2008: “*Quantitative Spatial Analysis and Modeling*”
- Colloquium, Center for Advanced Spatial Analysis (CASA), University College London, London, UK, March 26, 2008: “*GeoDa and Beyond: Towards Cyberinfrastructure for Spatial Data Analysis*”
- 47th Annual Meeting, Western Regional Science Association, Hawaii, HI: “*Valuing Access to Water: A Spatial Hedonic Approach Applied to Indian Cities*” (with N. Lozano, U. Deichmann, S. Lall)
- 54th Annual North American Meetings of the Regional Science Association International, Savannah, GA, Nov. 7–10, 2007: “*Valuing Access to Water: A Spatial Hedonic Approach Applied to Indian Cities*” (with N. Lozano, U. Deichmann, S. Lall)
- Software Demonstration, Decision Theater, Arizona State University, Tempe, AZ, Sept. 18, 2007: “*Spatial Analysis Tools and GeoDa*”
- Short Course, University of Illinois, Urbana, IL, June 25–28, 2007: “*Frontiers of Spatial Regression Analysis*”
- Short Course, University of Illinois, Urbana, IL, June 19–22, 2007: “*Foundations of Spatial Regression Analysis*”
- Fellows Colloquium, Research Triangle Institute International, Research Triangle Park, NC, May 30, 2007: “*Spatial Econometrics, Retrospect and Prospect*”
- 103rd Annual Meeting of the Association of American Geographers, San Francisco, CA, April 17–20, 2007: “*Cyberinfrastructure for Spatial Analysis*”, “*Spatially Enabling Riverweb, a Web-Based Resource for Historical Exploration of the American Bottom*” (with M. Hwang, S. Appelford, V. Burton)
- Colloquium, School of Geographical Sciences, Arizona State University, Tempe, AZ, Feb. 27, 2007: “*Spatial Econometrics: Retrospect and Prospect*”
- Annual Meeting of the Allied Social Science Associations, Chicago, IL, Jan 4–6, 2007: “*Errors in Variables and Spatial Effects in Hedonic House Price Models of Ambient Air Quality*” (with N. Lozano)
- 53rd Annual North American Meetings of the Regional Science Association International, Toronto, ON, Nov. 16–18, 2006: “*Endogeneity and Spatial Effects in Hedonic House Price Models of Ambient Air Quality*” (with N. Lozano); “*P-Region Based Estimation of Disease Rates*” (with S. Rey, J. Duque and X. Li)
- Short Course, US Army Construction Engineering Research Laboratories, Champaign, IL, Sept. 25–26, 2006: “*Spatial Data Analysis of Terrorist/Criminal Data using GeoDa*”
- 2006 Joint Statistical Meetings, American Statistical Association, Seattle, WA, Aug. 6–10, 2006: “*Exploring Spatial Data with OpenGeoDa and PySAL*” (with S. Rey)
- 19th Advanced Summer School in Regional Science, GIS and Spatial Econometrics, Groningen, The Netherlands, July 4–12, 2006: “*Spatial Analysis with GeoDa*” (two-day short course)

- Fifth International Workshop on Spatial Econometrics and Statistics, Rome, Italy, May 25–27, 2006: *"Endogeneity and Spatial Effects in Hedonic House Price Models of Ambient Air Quality"* (with N. Lozano)
- Apple Executive Briefing, Apple Computer, Cupertino, CA, May 17, 2006: *"Geospatial Analysis"*
- Colloquium, Research Triangle International, Research Triangle Park, NC, May 11, 2006: *"Spatial Aspects of the Treatment of Air Quality in Hedonic House Price Models"*
- Colloquium, Research Triangle Institute International, Research Triangle Park, NC, May 10, 2006: *"Mapping and Analysis for Spatial Social Science"*
- Colloquium, Decision and Information Science Division, Argonne National Laboratory, Argonne, IL, March 9, 2006: *"GeoDa and OpenGeoDa, an Introduction"*
- 102nd Annual Meeting of the Association of American Geographers, Chicago, IL, March 8–11, 2006: *"Spatial Econometrics: Past, Present and Future"*; *"Perspectives on Spatial Analysis: The Contributions of Arthur Getis"*
- National Consortium on Violence Research, Workshop on Space, Networks and Social Influence, University of California, Irvine, CA, Feb. 10–11, 2006: *"Spatial Weights or Distance Metrics"*
- Faculty Forum, Urban Research Initiative, University of Pennsylvania, Philadelphia, PA, Feb. 1, 2006: *"Spatial Aspects of the Treatment of Air Quality in Hedonic House Price Models"*
- Center for Computing in Humanities, Arts and Social Science Conference, University of Illinois, Urbana, IL, Dec. 9, 2005: *"Mapping and Analysis for Spatial Social Science"*
- Seminar, National Center for Supercomputing Applications, Urbana, IL, Dec. 7, 2005: *"GeoDa and OpenGeoDa, an Introduction"*
- 52nd Annual North American Meetings of the Regional Science Association International, Las Vegas, NV, Nov. 10–12, 2005: *"The Valuation of Environmental Disamenities in Spatial Hedonic House Price Models: An Empirical Comparison"* (with N. Lozano), *"Clustering Components in the Python Spatial Analysis Library (PySAL)"* (with S. Rey and J. Duque).
- GeoComputation 2005, 8th International Conference on GeoComputation, Ann Arbor, MI: July 31–Aug 3, 2005: *"Exploring Spatial Data with GeoDa"* (workshop, with J. Koschinsky), *"PySAL, a Python Library for Spatial Analytical Functions"* (with S. Rey).
- Summer 2005 GeoDa Workshop, Urbana, IL: July 25–27, 2005: *"An Introduction to Spatial Data Analysis with GeoDa"* (short course).
- Environmental and Resource Economics Seminar, Development Economics Workshop, and Econometrics Seminar, Departments of Economics and Agricultural and Resource Economics, UC Davis, Davis, CA: June 6, 2005: *"Air Quality in Hedonic House Price Models: Spatial Aspects."*
- Seminar, Development Economics Research Group, The World Bank, Washington, DC: May 18, 2005: *"Under the Hood: Issues in the Specification, Estimation and Implementation of Spatial Regression Models."*

- 101st Annual Meeting of the Association of American Geographers, Denver, CO, April 5–9, 2005: “*PySAL, a Python Library for Spatial Analytical Functions*” (with S. Rey)
- Colloquium, Department of Urban Studies and Planning, Massachusetts Institute of Technology, Cambridge, MA, Feb. 4, 2005: “*GeoDa, an Introduction to Spatial Data Analysis*”
- Colloquium, Department of Geography, The Ohio State University, Columbus, OH, Jan. 6, 2005: “*GeoDa: Why, How and What is Next*”

SELECTED PROFESSIONAL SERVICE

- Member, Board, Commission on Modeling Geographical Systems, International Geographical Union, 2020-.
- Member, Board of Directors, Spatial Econometrics Association, 2010-.
- Member, Scientific Committee, Spatial Econometrics Association Conference, Rome, Italy, 2016.
- Member, Advisory Committee, *Urban Informatics Initiative*, Faculty of the Built Environment, University of New South Wales, Sydney, Australia, Oct. 22-24, 2014.
- Member, Program Committee, *GIScience 2014*, Vienna, Austria, Sept. 23-26, 2014.
- Member, Scientific Committee, *Spatial Econometrics Association* conference, Zurich, Switzerland, 2014.
- Member, Scientific Committee, *Spatial Econometrics Association* conference, Washington, D.C., 2013.
- Member, Program Committee, *GIScience 2012*, Columbus, OH, Sept. 18-21, 2012.
- Chair, *Site Review Committee, Advanced Geotechnologies SRC*, Science Foundation Ireland, Oct. 2010.
- Member, Program Committee, *GIScience 2010*, Zurich, Switzerland, Sept. 14-17, 2010.
- Arizona State University, Lead Delegate to the *University Consortium for Geographic Information Science (UCGIS)*, 2009–2013.
- Member, Local Arrangements Committee, *104th Annual Meeting of the Association of American Geographers*, Las Vegas, NV, March 2009.
- Chair, Program Committee, *Third World Conference of the Spatial Econometric Association*, New York, NY, Nov. 18–19, 2008.
- Member, Program Committee, *GIScience 2008*, Park City, UT, Sept. 23–26, 2008.
- Member, Program Committee, *16th ACM International Symposium on Advances in Geographic Information Systems*, Los Angeles, CA, Nov. 5–7, 2008.
- Chair, *Site Review Committee, National Center for Geocomputation*, Science Foundation Ireland, Oct. 9, 2007.
- Member, Academic Committee, *State Key Lab of Resources and Environmental Information System (LREIS)*, Institute of Geographic Science and Natural Resources Research, Chinese Academy of Sciences, 2007–
- Member, Program Committee, *15th ACM International Symposium on Advances in Geographic Information Systems*, Seattle, WA, Nov. 7–9, 2007.
- Chair, *William Alonso Memorial Prize Committee*, Regional Science Association International, 2010–; Treasurer 2006–2009.

- Chair, *Fellows Election Committee*, Regional Science Association International, 2006–07.
- Member, *Site Review Committee*, National Center for Geocomputation, Science Foundation Ireland, Oct. 25–26, 2006.
- Member, Program Committee, *GIScience 2006*, Munster, Germany, Sept. 20–23, 2006.
- Founding Member and Secretary, *Spatial Econometric Society*, 2006–2010.
- Member, Scientific Committee, *Fifth International Workshop on Spatial Econometrics and Statistics*, Rome, Italy, May 25–27, 2006.
- Secretary, *2005 Fellows Election Committee*, Regional Science Association International.
- Member, Program Committee, *GeoComputation 2005*, Ann Arbor, MI August 1–3, 2005.
- Member, University Consortium for Geographic Information Science Model Curricula *Advisory Board*, 2005.
- Member, *Executive Committee*, Center for Spatially Integrated Social Science (CSISS), 1999–2005
- Member, *Advisory Committee*, A Model GIS/Atlas for State Comprehensive Cancer Control, Pennsylvania State University Hershey Medical Center, Hershey, PA, 2003–2006.
- Member, *National Science Foundation Advisory Panel*, Methodology, Measurement and Statistics Program, 2003–04.
- Co-Organizer, *CSISS Specialist Meeting on New Tools for Spatial Data Analysis*, Santa Barbara, CA, May 10–11, 2002.
- Organizer, *Advanced Workshop on Spatial Analysis in Social Research*, ICPSR, Ann Arbor, MI, May 17–20, 2001.
- Chair, Steering Committee, *CSISS Specialist Meeting on Spatial Externalities*, Santa Barbara, CA, Jan. 11–13, 2001.
- Member, *National Consortium on Violence Research*, 1998–2008.
- Member, *International Advisory Board on ESRI* (Environmental Research Institute, Inc.) *GIScience Curriculum*, 1998–2000.
- Co-Chair, Steering Committee, *Workshop on Status and Trends in Spatial Analysis*, *Project Varenius*, Santa Barbara, CA, Dec. 10–12, 1998.
- University of Texas at Dallas, Lead Delegate to the *University Consortium for Geographic Information Science* (UCGIS), 1998–99.
- Member, *National Science Foundation Advisory Panel*, Geography and Regional Science Program, 1996–98.
- West Virginia University Voting Delegate to the *University Consortium for Geographic Information Science* (UCGIS), 1996–98.
- Councillor, *Regional Science Association International*, RSAI (1990–92), and *North American Regional Science Council*, NARSC, 1990–92.
- Member, Board of Directors, *Mathematical Models and Quantitative Methods Specialty Group*, Association of American Geographers, 1989–90; 1993–94.
- Co-Chair Program Committee, and Chair, Local Organizing Committee, 36th North American Meetings of the *Regional Science Association*, Santa Barbara, CA, 1989.
- Member, Program Committee, *88th Annual Meeting of the Association of American Geographers*, San Diego, Ca, 1992.

- Organizer, Conference on Exploratory Spatial Data Analysis and GIS, NCGIA Santa Barbara, Feb. 1993.
- Member, Selection Committee, Regional Science Association Dissertation Award, 1987.

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- *Section 64* (Human Environmental Sciences): Section Chair, 2013-16, Evaluation Committee Chair (2009-11, 2016-18).
- *Class VI* (Applied Biological, Agricultural and Environmental Sciences): Class Membership Committee (CMC), at large member 2012, 2013, 2017.
- Member, *Mapping Sciences Committee*, National Research Council, 2009–2014.
- Member, *Geographical Sciences Committee*, National Research Council, 2007–2009.
- Member, ad hoc Committee on *Future U.S. Workforce for Geospatial Intelligence*, National Research Council, 2011-13.
- Member, Steering Committee, *NRC National Geospatial Information Agency Research Directions Workshop*, 2010.