

## TEXAS STATE VITA

### I. Academic/Professional Background

A. Name: James P. LeSage

Title: Fields Endowed Chair in Urban &  
Regional Economics

### B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
Ph.D.	1983	Boston College, Newton, MA	Economics	"A Rational Expectations Model of Local Payroll Tax Regimes"
M.A.	1977	University of Toledo, Toledo, OH	Economics	"The Systems Approach to Curriculum Design for Introductory Economics"
B.A.	1974	University of Toledo, Toledo, OH	Economics	

### C. University Experience

Position	University	Dates
Fields Endowed Chair in Urban & Regional Economics, McCoy College of Business Administration, Dept. of Finance and Economics	Texas State University-San Marcos	2008-present
McCoy Endowed Chair in Urban & Regional Economics, McCoy College of Business Administration, Dept. of Finance and Economics	Texas State University-San Marcos	2006-2008
Professor, Dept. of Economics	University of Toledo	1995-2005
Associate Professor, Dept. of Economics	University of Toledo	1989-1994
Assistant Professor, Dept. of Economics	University of Toledo	1988-1989
Associate Professor, Dept. of Economics	Bowling Green State University	1987-1988
Assistant Professor, Dept. of Economics	Bowling Green State University	1982-1987
Full-time Instructor, Dept. of Economics	Bowling Green State University	1977-1978

## II. TEACHING

### A. Teaching Honors and Awards:

McCoy College of Business Administration, Dean Nominee for the Presidential Award for Excellence in Teaching Activities, McCoy College of Business, Texas State University-San Marcos, 2008-09

Outstanding Teaching Award, Department of Finance and Economics, Texas State University-San Marcos, 2008-09.

### B. Courses Taught:

Principles of Microeconomics, Principles of Macroeconomics

Intermediate Microeconomic Theory, Managerial Economics  
 Advanced Microeconomic Theory.  
 Econometrics I Introductory course.  
 Econometrics II, Simultaneous equations course.  
 Econometrics III, Time Series course.  
 Regional Economics, Introductory course.  
 Urban and Regional Economics.  
 Introduction to Dynamic Optimization using GAMS (General Algebraic Modeling Software), an interdisciplinary course co-taught with Mathematics department faculty.  
 Dynamic Optimization for Economists, an interdisciplinary course co-taught with Mathematics department faculty.

### C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate):

#### Doctoral Dissertation Committees:

Cyrille Dossougoin, Université Catholique de Louvain, December 2018, "On the empirical analysis of financial network effects"

Cornwall, Gary J., University of Cincinnati, Department of Economics, May 2017, "Mixture models with spatial dependency"

Selin, Hazar, Université Jean-Monnet Groupe d'Analyse et de Théorie Economique Lyon-Saint Etienne France April 2014, "Spatial Dynamics Of Knowledge Networks"

Ryan Sutter, George Mason University, December 2009, "The Importance of Psychological Capital to Entrepreneurship on the Technological Frontier"

Wilfried Kock, Université de Bourgogne, Dijon, France, July 2007, "Growth, Interdependence and International Spillovers: A Spatial Econometric Approach"

Olivier Parent, Université Louis Pasteur de Strasbourg, France, May 2005, "Analyse Bayésienne des externalités de connaissance: Étude sur données européennes"

Ines Heba, GREMAQ, Groupe de recherche en économie mathématique et quantitative Université Toulouse I, France, January 2005, "Boite A Outils Geoxp Sous Matlab: Exploration D'une Base De Données Spatiales"

#### Master's Theses Advisor:

John Colucci, "The Impact of Creative Class Employment on Population Growth" 2011 Texas State University-San Marcos.

Xingjian Liu, "Method And Application Of Spatial Probit Model To The Business Return To New Orleans After Hurricane Katrina" 2010 Texas State University-San Marcos.

Dustin Kirby, "Spatial Econometric Modeling of Commuting Times" 2008 Texas State University.

Ryan Sutter, "Spatial Econometric Modeling of Presidential Voting Outcomes" 2005 University of Toledo

Nicole Plenzler, "Student Performance and Educational Resources: A Spatial Econometric Examination" 2004 University of Toledo

Boris Borisov, "BVAR modeling in the presence of outliers" 1997 University of Toledo

Anna Krivelyova, "A spatial prior for Bayesian vector autoregressive models" 1997 University of Toledo

Zheng Pan, "Using spatial contiguity as a Bayesian prior in regional modeling" 1995 University of Toledo

Shiyong Liu, "A Bayesian investigation of regime shifts in leading indicator relationships over the business cycle" 1993 University of Toledo

Keshin Tswei, "The impact of data revision on the development and forecasting performance of labor market models" 1990 University of Toledo

Basina Bekdache, "The impact of money announcements on interest rates: A Bayesian approach" 1990 University of Toledo

Jirong Xie, "A turning points test for Granger causality" 1990 University of Toledo

#### D. Courses Prepared and Curriculum Developed:

Developed Web-based learning materials for spatial econometrics for the University of West Virginia, Regional Research Institute. The Web Book of Regional Science is a peer-reviewed and edited on-line collection of learning materials developed for upper-division undergraduate and graduate students in regional science. My materials are entitled: Spatial Econometrics, 277 pages. Available at: [www.rri.wvu.edu/regscweb.htm](http://www.rri.wvu.edu/regscweb.htm)

Applied Econometrics using MATLAB, 2002, 334 pages. A manual to accompany the econometrics toolbox at: [www.spatial-econometrics.com](http://www.spatial-econometrics.com)

The Theory and Practice of Spatial Econometrics, 1999, 206 pages. A manual to accompany the spatial econometrics toolbox at: [www.spatial-econometrics.com](http://www.spatial-econometrics.com)

#### E. Funded External Teaching Grants and Contracts:

#### F. Submitted, but not Funded, External Teaching Grants and Contracts:

#### G. Funded Internal Teaching Grants and Contracts:

2003, Summer undergraduate student research grant, Jared Faris, "A Spatial Analysis of Ohio Employment, Earnings and Establishments growth", University of Toledo Research Council.

1991, \$3,000, UT Foundation - Program Excellence Award, with Dean A. Carlson (Mathematics) for "Mathematical Models in the Natural and Social Sciences," to develop a graduate and advanced undergraduate interdisciplinary course in optimization methods using CAMS (General Algebraic Modeling System) software.

#### H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

#### I. Other:

Visiting Professor, Université Jean-Monnet Groupe d'Analyse et de Théorie Economique Lyon-Saint Etienne, January 2014.

Visiting Professor, UFR Droit-Economie-Gestion, Université d'Orléans, Orléans France, June 2010.

Guest Professor 2008-present, Earth and Space Information Technologies Lab, Shenzhen Institute for Advanced Technology, Shenzhen China.

Faculty Affiliate, 2004-present, Regional Research Institute, West Virginia University.

Research Associate, 1982-1999, Urban Affairs Center, University of Toledo.

Research Affiliate, 2004-2006, GISAG center, University of Toledo.

Visiting Professor, Institute for Advanced Studies, Vienna, Austria, June-July 2004.

Visiting Professor, CREUSET, Université de Saint-Etienne, Saint-Etienne, France, May 2004.

Visiting Professor, GREMAQ, Université Toulouse I, France, Spring 2002.

Visiting Scholar, Institute for Empirical Macroeconomics, Federal Reserve Bank of Minneapolis, Winter 1993.

### III. SCHOLARLY/CREATIVE

#### A. Works in Print

##### 1. Books (if not refereed, please indicate)

## a. Scholarly monographs:

LeSage, James P. and R. Kelley Pace, *Introduction to Spatial Econometrics*, CRC Press, Taylor & Francis Group: Boca Raton, FL, January 2009.

## b. Textbooks:

## c. Edited Books:

Baltagi, Badi, James P. LeSage, and R. Kelley Pace (Volume editors), *Advances in Econometrics, Volume 37: Spatial Econometrics: Qualitative and Limited Dependent Variables*, Thomas B. Fomby, R. Carter Hill, Eric Hillebrand, David Jacho-Chávez, Ivan Jeliazkov, Daniel L. Millimet and Rodney Strachan (Series Eds.) Emerald Group Publishing Ltd, 2017.

LeSage, James P. and R. Kelley Pace (Volume editors), *Advances in Econometrics, Volume 18: Spatial and Spatiotemporal Econometrics*, Thomas B. Fomby, R. Carter Hill, Eric Hillebrand, David Jacho-Chávez, Ivan Jeliazkov, Daniel L. Millimet and Rodney Strachan (Series Eds.) Emerald Group Publishing Ltd, 2004.

## d. Chapters in Books:

Debarsy, Nicolas and James P. LeSage, Using convex combinations of spatial weights in spatial autoregressive models, *Handbook of Regional Science, 2<sup>nd</sup> Edition*, M. M. Fischer and Peter Nijkamp (Eds.) Springer, Berlin 2019 (in press).

Chih, Yao-Yu and James P. LeSage, Heterogeneous coefficient spatial regression panel models, *Handbook of Regional Science, 2<sup>nd</sup> Edition*, M. M. Fischer and Peter Nijkamp (Eds.) Springer, Berlin 2019 (in press).

Pace, R. Kelley and James P. LeSage, “Fast Simulated Maximum Likelihood Estimation of the Spatial Probit Model Capable of Handling Large Samples,” *Advances in Econometrics Volume 37: Spatial Econometrics: Qualitative and Limited Dependent Variables*, Thomas B. Fomby, R. Carter Hill, Eric Hillebrand, David Jacho-Chávez, Ivan Jeliazkov, Daniel L. Millimet and Rodney Strachan (Series Eds.), Volume editors: Badi Baltagi, James P. LeSage and R. Kelley Pace), Emerald Group Publishing Limited December 2016, pp. 3-34.

Sheng, Yuxue and James P. LeSage, “City and industry network impacts on innovation by Chinese manufacturing firms: a hierarchical spatial-interindustry model,” *Advances in Econometrics Volume 37: Spatial Econometrics: Qualitative and Limited Dependent Variables*, Thomas B. Fomby, R. Carter Hill, Eric Hillebrand, David Jacho-Chávez, Ivan Jeliazkov, Daniel L. Millimet and Rodney Strachan (Series Eds.), Volume editors: Badi Baltagi, James P. LeSage and R. Kelley Pace), Emerald Group Publishing Limited December 2016, pp. 343-386.

LeSage, James P. and Manfred M. Fischer, “Spatial Regression-Based Model Specification for Exogenous and Endogenous Spatial Interaction,” *Spatial Econometric Interaction Modelling*, Roberto Patuelli and Giuseppe Arbia (Eds.) Springer, Berlin 2016, pp. 15-36.

LeSage, James P. and Carlos Llano “A Spatial Interaction Model with Spatially Structured Origin and Destination Effects,” *Spatial Econometric Interaction Modelling*, Roberto Patuelli and Giuseppe Arbia (Eds.) Springer, Berlin 2016, pp. 171-198. (A reprint of an article published in *Journal of Geographical Systems*. Special Issue on “Advances in the Statistical Modelling of Spatial Interaction Data”, Vol. 15, Number 3/July 2013, pp. 265-289.)

LeSage, James P. and Esra Satici “A Bayesian Spatial Interaction Model Variant of the Poisson Pseudo-Maximum Likelihood Estimator,” *Spatial Econometric Interaction Modelling*, Roberto Patuelli and Giuseppe Arbia (Eds.) Springer, Berlin 2016, pp. 121-144.

LeSage, James P., Spatial Econometrics, *Handbook of Research Methods and Applications in Economic Geography*, C. Karlsson, M. Andersson, Therese Norman (Eds.) Edward Elgar Publishing, Cheltenham, U.K., 2015, pp. 23-40.

Pace, R. Kelley, James P. LeSage and Shuang Zhu, "Spatial Dependence in Regressors", *Advances in Econometrics Volume 30*, Thomas B. Fomby, R. Carter Hill, Ivan Jeliazkov, Juan Carlos Escanciano and Eric Hillebrand (Series Eds., Volume editors: Dek Terrell and Daniel Millimet) , Emerald Group Publishing Limited, 2012, pp. 257-295.

LeSage, James P. and R. Kelley Pace, Interpreting Spatial Econometric Models, *Handbook of Regional Science* M. M. Fischer and Peter Nijkamp (Eds.) Springer, Berlin 2014 pp. 1535-1552.

Thomas-Agnan, Christine and James P. LeSage, Spatial Econometric OD-Flow Models, *Handbook of Regional Science* M. M. Fischer and Peter Nijkamp (Eds.) Springer, Berlin 2014, pp. 1653-1673.

Pace, R. Kelley and James P. LeSage, Omitted variables biases of OLS and spatial lag models, *Progress in Spatial Analysis: Methods and Applications*, A. Páez, J. Le Gallo, R. Buliung and S. Dall'Erba (Eds.) (Advances in Spatial Science, Springer Berlin), 2010, pp. 17-28.

Pace, R. Kelley and James P. LeSage, Spatial Econometrics, *Handbook of Spatial Statistics*, A. E. Gelfand, P. Diggle, M. Fuentes and P. Guttorp (Eds.), CRC Press, Taylor & Francis Group, 2010, pp. 245-260.

LeSage, James P. and Manfred M. Fischer, Spatial Econometric Modeling of Origin-Destination Flows, *Handbook of Applied Spatial Analysis: Software Tools, Methods and Applications*, M. M. Fischer and A. Getis (Eds.) Springer, Berlin 2010, pp. 409-433.

Parent, Olivier, and James P. LeSage, Bayesian Model Averaging, *Handbook of Applied Spatial Analysis: Software Tools, Methods and Applications*, M. M. Fischer and A. Getis (eds.) Springer, Berlin 2010, pp. 435-460.

LeSage, James P. and R. Kelley Pace, An Introduction to Spatial Econometrics, *Handbook of Applied Spatial Analysis: Software Tools, Methods and Applications*, M. M. Fischer and A. Getis (eds.) Springer, Berlin 2010, pp. 355-376.

Pace, R. Kelley and James P. LeSage, Spatial Econometric Models, Prediction, *Encyclopedia of Geographical Information Science*, Shashi Shekhar and Hui Xiong (eds.), Springer-Verlag, Berlin 2008 10.1007/978-0-387-35973-1\_1266.

LeSage, James P., "Spatial Econometrics," *Encyclopedia of Social Measurement: Fields and Applications*, (Academic Press, a division of Elsevier Science, Amsterdam), Kimberly Kempf-Leonard, (editor-in-chief), 2005, pp. 613-619.

LeSage, James P. and R. Kelley Pace, *Introduction to Advances in Econometrics: Volume 18: Spatial and Spatiotemporal Econometrics*, (Oxford: Elsevier Ltd), James P. LeSage and R. Kelley Pace (eds.), 2004, pp. 1-32.

Smith, Tony E. and James P. LeSage, "A Bayesian Probit Model with Spatial Dependencies", in *Advances in Econometrics: Volume 18: Spatial and Spatiotemporal Econometrics*, (Oxford: Elsevier Ltd), James P. LeSage and R. Kelley Pace (eds.), 2004, pp. 127-160.

LeSage, James P. and Michael Magura, "Using Bayesian Techniques for Data Pooling in Regional Payroll Forecasting," in *The structural econometric time series analysis approach*, edited by Arnold Zellner and Franz G. Palm, Cambridge University Press, Cambridge 2004, pp. 619-636. A reprint of an article that appeared in: *Journal of Business & Economic Statistics*, 1990, Volume 8, no. 1, pp. 127-135.

LeSage, James P., "Forecasting Turning Points in Metropolitan Employment Growth Rates Using Bayesian Techniques," in *The structural econometric time series analysis approach*, edited by Arnold Zellner and Franz G. Palm, Cambridge University Press, Cambridge 2004, pp. 637-655. A reprint of an article that appeared in: *Journal of Regional Science*, 1990, Volume 30. No. 4, pp. 533-548.

LeSage, James P., "A Family of Geographically Weighted Regression Models," in *Advances in Spatial Econometrics: Methodology, Tools and Applications*, Springer-Verlag Berlin, Luc Anselin and J.G.M. Florax and S. Rey (eds.), 2004, pp. 241-264.

LeSage, James P., "Spatial Regression Models," in *Numerical Issues in Statistical Computing for the Social Scientist*, John Wiley & Sons, Inc., Micah Altman, Jeff Gill and Michael McDonald (eds.), 2004, pp. 199-218.

LeSage, James P. and R. Kelley Pace, "Using Matrix Exponentials to Estimate Spatial Probit/Tobit Models," in *Recent Advances in Spatial Econometrics*, Jesus Mur, Henri Zeller and Arthur Getis (eds.), Palgrave Publishers, 2004, pp. 105-131.

Pace, R. Kelley and James P. LeSage, "Spatial Autoregressive Local Estimation," in *Recent Advances in Spatial Econometrics*, Arthur Getis, Jesus Mur and Henri Zeller (eds.), Palgrave Macmillan Publishers, 2004, pp. 31-51.

LeSage, James P. and Sergio J. Rey, "Restrictions in Integrated Econometric-Input Output Models," in *Trade, Networks and Hierarchies*. Springer-Verlag, Berlin, Geoffrey J.D. Hewings, Michael Sonis and David E. Boyce (eds.), 2002, Chapter 13, pp. 251-266.

LeSage, James P. and R. Kelley Pace, "Spatial Dependence in Data Mining," in *Data Mining for Scientific and Engineering Applications*, Robert L. Grossman, Chandrika Kamath, Philip Kegelmeyer, Vipin Kumar, and Raju R. Namburu (eds.), Kluwer Academic Publishing, 2001, pp. 439-460.

LeSage, James P., "Forecasting Turning Points in Post-War Regional Employment: A Comparison of Alternative Techniques," in *Bayesian Analysis in Statistics and Econometrics, Essays in honor of Arnold Zellner*, edited by D. Berry, K. Chaloner and J. Geweke, Wiley Series in Probability and Statistics, 1995, pp. 41-51.

LeSage, James P., "A Multiprocess Mixture Model to Estimate Space-Time Dimensions of Weekly Pricing of Certificates of Deposit," in *New Directions in Spatial Econometrics*, edited by Luc Anselin and Raymond Florax, North-Holland, Amsterdam, Studies in Regional Science series, 1995, pp. 359-397.

## 2. Articles

### a. Refereed Journal Articles:

LeSage, James P and Daniel Hendrikz "Large Bayesian vector autoregressive forecasting for regions: A comparison of methods based on alternative disturbance structures," *Annals of Regional Science*, 2019, Volume 62, Issue 3, pp. 563-599.

LeSage, James P, Yao-Yu Chih and Colin Vance "Markov Chain Monte Carlo estimation of spatial dynamic panel models for large samples," *Computational Statistics & Data Analysis*, 2019, Volume 138, pp. 107-125.

LeSage, James P, "Fast MCMC estimation of multiple W-matrix spatial regression models and Metropolis Hastings-Monte Carlo log marginal likelihoods," *Journal of Geographical Systems*, (in press), accepted April 2019.

LeSage, James P, and Manfred M. Fischer "Cross-sectional dependence specifications in a static trade panel data setting," *Journal of Geographical Systems*, (in press), accepted April 2019.

Autant-Bernard, Corinne and James P. LeSage "A heterogeneous coefficient approach to the knowledge production function," *Spatial Economic Analysis*, 2019, Volume 14, Number 2, pp. 196-218.

- LeSage, James P., and Yao-Yu Chih, "A matrix exponential spatial panel model with heterogeneous coefficients," *Geographical Analysis*, 2018 Volume 50, Number 4, pp. 422-453.
- LeSage, James P., and Yao-Yu Chih, "A Bayesian spatial panel model with heterogeneous coefficients," *Regional Science & Urban Economics*, 2018 Volume 72, pp. 58-73.
- Cilem Selin Hazir, James P. LeSage and Corinne Autant-Bernard, "The Role of R&D Collaboration Networks on Regional Knowledge Creation: Evidence from Information and Communication Technologies," *Papers in Regional Science*, 2018 Volume 97, Issue 3, pp. 549-567.
- Debarsy, Nicolas and James P. LeSage, "Flexible dependence modeling using convex combinations of different types of connectivity structures," *Regional Science & Urban Economics*, 2018, Volume 69, pp. 46-68.
- LeSage, James P. and R. Kelley Pace, "Spatial econometric Monte Carlo studies: raising the bar", *Empirical Economics*, 2018 Volume 55, Issue 1, pp. 17-24.
- Lacombe, Donald J. and James P. LeSage, "Use and interpretation of spatial autoregressive probit models," *Annals of Regional Science*, 2018 Volume 60, Issue 1, pp. 1-24.
- LeSage, James P., Colin Vance, Yao-Yu Chih, "A Bayesian heterogeneous coefficients spatial autoregressive panel data model of retail fuel duopoly pricing," *Regional Science & Urban Economics* 2017, Volume 62, pp. 46-55.
- Griffith, Daniel A. Manfred Fischer and James P. LeSage "The spatial autocorrelation problem in spatial interaction modelling: a comparison of two common solutions," *Letters in Spatial and Resource Sciences*, 2017, Volume 10, Issue 1, pp. 75-86.
- LeSage, James P. and Yao-Yu Chih, "Interpreting heterogeneous coefficient spatial autoregressive panel models," *Economics Letters*, 2016, Volume 142, pp. 1-5.
- LeSage, James P., "Software for Bayesian cross section and panel spatial model comparison," *Journal of Geographical Systems*, 2015, Volume 17, pp. 297-310.
- Koch, Wilfried and James P. LeSage, "Latent multilateral trade resistance indices: theory and evidence," *Scottish Journal of Political Economy*, 2015, Volume 62, number 3, pp. 264-290.
- Fischer, Manfred M. and James P. LeSage "A Bayesian space-time approach to identifying and interpreting regional convergence clubs in Europe," *Papers in Regional Science*, 2015, Volume 94, Issue 4, pp. 677-702.
- LeSage, James P. and Bryce A. Cashell, "A comparison of vector autoregressive forecasting performance: spatial versus non-spatial Bayesian priors," *Annals of Regional Science*, 2015, Volume 54, pp. 533-560.
- Lacombe, Donald J. and James P. LeSage, "Using Bayesian posterior model probabilities to identify omitted variables in spatial regression models," *Papers in Regional Science*, 2015, Volume 94, number 2, pp. 365-383.
- LeSage James P. and Christine Thomas-Agnan, "Interpreting spatial autoregressive interaction models," *Journal of Regional Science* 2015, Volume 55, Number 2, pp. 188-208.
- LeSage, James P. and R. Kelley Pace, "The biggest myth in spatial econometrics," 2014, *Econometrics*, Volume 2, Issue 4, pp. 217-249. doi:10.3390/econometrics2040217. <http://www.mdpi.com/2225-1146/2/4/217>
- LeSage, James P. and Carlos Llano-Verduras, "Forecasting spatially dependent origin and destination commodity flows," *Empirical Economics* 2014, Volume 47, Issue 4, pp. 1543-1562.
- LeSage, James P. "What regional scientists need to know about spatial econometrics," *The Review of Regional Studies* 2014, Volume 44, Number 1, pp. 13-32.

LeSage James P. and Yuxue Sheng, "A spatial econometric panel data examination of endogenous versus exogenous interaction in Chinese province-level patenting," *Journal of Geographical Systems* 2014, Volume 16, pp. 233-262.

LeSage James P., "Spatial econometric panel data model specification: A Bayesian approach," *Spatial Statistics* 2014, Volume 9, Issue C, pp. 122-145.

Moon, Kenneth P. and James P. LeSage, "Simultaneous dependence between firm-level stock returns," *Journal of Economics and Finance*, 2013, Volume 37, Number 4, pp. 479-494.

Pace, R. Kelley, James P. LeSage and Shuang Zhu, "Interpretation and computation of estimates from regression models using spatial filtering," *Spatial Economic Analysis*, (2013), Volume 8, Issue 3, pp. 352-369.

LeSage, James P. and Carlos L. Llano-Verduras, "A spatial interaction model with spatially structured origin and destination effects," *Journal of Geographical Systems*, 2013, Volume 15, Issue 3, pp. 265-289.

Lam, Nina S. N., Helbert Arenas, R. Kelley Pace, James P. LeSage, and Richard Campanella, "Predictors of business return in New Orleans after Hurricane Katrina," *Public Library of Science (PLoS One)*, Volume 7 (10): October 24, 2012, e47935. doi:10.1371/journal.pone.0047935

Parent, Olivier and James P. LeSage, "Spatial dynamic panel data models with random effects," *Regional Science & Urban Economics*. 2012, Volume 42, Issue 4, pp. 727-738.

Parent, Olivier and James P. LeSage, "Determinants of knowledge production and their effects on regional economic growth," *Journal of Regional Science*, 2012, Volume 62, Number 2, pp. 256-284.

LeSage, James P., and Christina Ha, "The impact of migration on social capital --- do migrants take their bowling balls with them?" *Growth and Change*, 2012, Volume 43, Issue 1, pp. 1-26.

LeSage, James P. and Manfred M. Fischer, "Estimates of the impact of static and dynamic knowledge spillovers on regional factor productivity," *International Regional Science Review*, 2012, Volume 35, Issue 1, pp. 103-127.

Debarys, Nicolas, Cem Ertur and James P. LeSage, "Interpreting dynamic space-time panel data models," *Statistical Methodology*, 2012, Volume 9, Issues 1-2, pp. 158-171.

LeSage, James P. and Matthew Dominguez, "The importance of modeling spatial spillovers in public choice analysis," *Public Choice*, 2012, Volume 150, Numbers 3-4, pp. 525-545.

LeSage, James P. and R. Kelley Pace, "Pitfalls in higher order model extensions of basic spatial regression methodology," 2011, *Review of Regional Studies*, Volume 41, Issue 1, pp. 13-26.

LeSage, James P., R. Kelley Pace, N. Lam, R. Campanella, "Space-time modeling of natural disaster impacts," *Journal of Economic and Social Measurement*, 2011, Volume 36, Number 3, pp. 169-191.

LeSage, James P., R. Kelley Pace, N. Lam, R. Campanella and X. Liu, "New Orleans business recovery in the aftermath of Hurricane Katrina," *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 2011, Volume 174, Issue 4, pp. 1007-1027.

Blankmeyer, Eric, James P. LeSage, J. R. Stutzman, Kris Joseph Knox and R. Kelley Pace, "Peer group dependence in salary benchmarking: A statistical model," *Managerial and Decision Economics*, 2011, Volume 32, Issue 2, pp. 91-104.

Moon, Kenneth P. and James P. LeSage, "Revisiting the question --- does corporate headquarters location matter for stock returns?" *Applied Economics Letters* 2011, Volume 18, Issue 6, pp. 505 – 508.



- Autant-Bernard, Corinne and James P. LeSage, "Quantifying knowledge spillovers using spatial econometric models," *Journal of Regional Science*, 2011, Volume 51, Issue 3, pp. 471-496.
- Parent, Olivier and James P. LeSage, "A space-time filter for panel data models containing random effects," *Computational Statistics & Data Analysis*, 2011, Volume 55, Issue 1, pp. 475-490.
- Parent, Olivier and James P. LeSage, "A spatial dynamic panel model with random effects applied to commuting times," *Transportation Research Part B: Methodological*, 2010, Volume 44B, Issue 5, pp. 633-645.
- Liu, Xingjian and James P. LeSage, "Arc\_Mat: A Matlab-based spatial data analysis toolbox," *Journal of Geographical Systems*, 2010, Volume 12, number 1, pp. 69-87.
- Pace, R. Kelley and James P. LeSage, "A Sampling approach to estimating the log determinant used in spatial likelihood problems," *Journal of Geographical Systems*, 2009, Volume 11, number 3, pp. 209-225.
- Lam, Nina, Kelley Pace, Richard Campanella, James LeSage and Helbert Arenas, "Business return in New Orleans: Decision making amid Post-Katrina uncertainty", *Public Library of Science (PLoS One)*, August 26, 2009, 4(8):e6765 <http://dx.plos.org/10.1371/journal.pone.0006765>
- Kirby, Dustin K. and James P. LeSage, "Changes in commuting to work times over the 1990 to 2000 period," *Regional Science & Urban Economics*, 2009, Volume 39, Issue 4, pp. 460-471.
- LeSage, James P. and Manfred M. Fischer, "Spatial growth regressions: Model specification, estimation and interpretation," *Spatial Economic Analysis*, 2008, Volume 3, number 3, pp. 275-304.
- LeSage, James P. and R. Kelley Pace, "Spatial econometric modeling of origin-destination flows," *Journal of Regional Science*, 2008, Volume 48, Issue 5, pp. 941-967.
- LeSage, James P. and Wolfgang Polasek, "Incorporating transportation network structure in spatial econometric models of commodity flows," *Spatial Economic Analysis*, 2008, Volume 3, Issue 2, pp. 225-245.
- LeSage, James P., "An Introduction to spatial econometrics," *Revue d'Economie Industrielle*, 2008, Volume 123, number 3, pp. 19-44.
- Pace, R. Kelley, and James P. LeSage "A spatial Hausman test," *Economics Letters*, 2008, Volume 101, pp. 282-284.
- LeSage, James P. and Joni Charles, "A statistical approach to home buyers' revealed preferences," *Journal of Geographical Systems*, 2008, Volume 10, Issue 1, pp. 1-21.
- Parent, Olivier and James P. LeSage "Using the variance structure of the conditional autoregressive specification to model knowledge spillovers," *Journal of Applied Econometrics*, 2008, Volume 23, Issue 2, pp. 235-256.
- Ertur, Cem, Julie LeGallo and James P. LeSage, "Local versus global convergence in Europe: A Bayesian spatial econometric approach," *Review of Regional Studies*, 2008, Volume 37, Issue 1, pp. 82-108.
- Autant-Bernard, Corinne, James P. LeSage, and Olivier Parent, "Firm innovation strategies: a spatial cohort multinomial approach," *Annales d'Economie et de Statistique*, 2008, Volume 87-88, July-Dec, pp. 63-80.
- Holloway, Garth, Donald Lacombe and James P. LeSage, "Spatial econometric issues for bio-economic and land-use modelling," *Journal of Agricultural Economics*, 2007, Volume 50, Issue 3, pp. 549-588.
- LeSage, James P. and R. Kelley Pace, "A matrix exponential spatial specification," *Journal of Econometrics*, September, 2007, Volume 140, Issue 1, pp. 190-214.

LeSage, James P., Manfred M. Fischer and Thomas Scherngell, "Knowledge spillovers across Europe, evidence from a Poisson spatial interaction model with spatial effects," *Papers in Regional Science*, Volume 86, Number 3 August 2007, pp. 393-421.

LeSage, James P. and Olivier Parent, "Bayesian model averaging for spatial econometric models," *Geographical Analysis*, 2007, Volume 39 Issue 3, pp. 241-267.

Keith, Kristen and James P. LeSage, "Robust decomposition analysis of wage differentials," *Journal of Economic and Social Measurement*, 2004, Volume 29, number 4, pp. 487 - 505.

LeSage, James P. and R. Kelley Pace, "Models for spatially dependent missing data," *Journal of Real Estate Finance and Economics*, 2004, Volume 29, number 2, pp. 233-254.

Pace, R. Kelley and James P. LeSage, "Chebyshev approximation of log-determinants of spatial weight matrices," *Computational Statistics and Data Analysis*, 2004, Volume 45, pp. 179-196.

Pace, R. Kelley and James P. LeSage, "Likelihood dominance spatial inference," *Geographical Analysis*, 2003, Volume 35, number 2, pp. 133-147.

Roux, Franck-Emmanuel, Kader Boulanouar, Jean-Albert Lotterie, Mehdi Mejdoubi, James P. LeSage, and Isabelle Berry, "Language functional magnetic resonance imaging in preoperative assessment of language areas: correlation with direct cortical stimulation," *Neurosurgery*, June 2003, Volume 52, number 6, pp. 1335-1345.

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LeSage, James P., "Regression analysis of spatial data," *The Journal of Regional Analysis and Policy*, 1997, Volume 27, number 2, pp. 83-94.

LeSage, James P., "Bayesian estimation of spatial autoregressive models," *International Regional Science Review*, 1997, Volume 20, number 10, pp. 113-129.

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#### b. Non-refereed Articles:

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### 3. Abstracts:

### 4. Reports:

Bedlow, John, and James P. LeSage, "A summary of the analysis and motivators of growth in the Austin - San Antonio corridor", a study funded by the Greater San Marcos Partnership and McCoy College of Business. This was part of a broader five-part study entitled: *The Texas Way of Urbanism*, that included Austin, Dallas, Houston and San Antonio, coordinated by Joel Kotkin, Presidential Fellow in Urban Futures at Chapman University in Orange, California.

LeSage, James P. "The Economic Impact of Texas State University - San Marcos," an economic impact study conducted for Texas State University – San Marcos President Denise Trauth, October, 2014.

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LeSage, James P. "A Report on Statistical Cleaning of the Ohio UUP ES202 data," presented to the Ohio ES202 Working group, Columbus, OH, December 1999.

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### 5. Book Reviews:

LeSage, James P. (2011). A review of *Perspectives on Spatial Data Analysis*, Luc Anselin and Sergio Rey (eds.) Berlin-Heidelberg: Springer-Verlag, *Journal of Regional Science*, Volume 51, no. 3, pp. 626-627.

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## 6. Other: Printed in Refereed Conference Proceedings

LeSage, James P. and Joni S. Charles, "Using Home Buyers' Revealed Preferences to Define the Urban-Rural Fringe," Proceedings of Emerging Issues Along Urban/Rural Interfaces II, April 9-12, Atlanta, GA, 2007, pp. 158-160.

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LeSage, James P. "Forecasting Metropolitan and Regional Employment Growth Using Bayesian Pooling Techniques," in *Papers and Proceedings of the American Statistical Association, Business and Economic Statistics Section*, 1990, pp. 105-113.

Simon, Stephen D. and James P. LeSage, "Studying Numerical Accuracy as a Controlled Experiment," *Proceedings of the Nineteenth Annual Conference on the Interface Between Computer Science and Statistics*, 1987.

Simon, Stephen D. and James P. LeSage, "The Impact of Centering and Scaling on Numerical Accuracy of Regression Algorithms," in *Papers and Proceedings of the IASTED Applied Simulation and Modeling*, 1985.

Lesage, James P. and Michael Magura, "An Estimation Technique for Determining the Causal Structure of Intercity, Interindustry Employment Relationships in Regional Labor Markets," in *Modeling and Simulation*, Proceedings of the Annual Pittsburgh Conference on Modeling and Simulation, Vol. 15, Part 1, 1984, pp. 105-9.

LeSage, James P. and Stephen D. Simon, "Numerical Accuracy of Statistical Algorithms for Microcomputers," in *Papers and Proceedings of the American Statistical Association, Statistical Computing Section*, 1984.

Lesage, James P. and Michael Magura, "A Transition Function Used to Estimate Changes in Local Payroll Tax Expectations," in *Modeling and Simulation*, Proceedings of the Annual Pittsburgh Conference on Modeling and Simulation, Vol. 14, Part 3, 1983, pp. 941-47.

## B. Works not in Print

### 1. Papers Recently Presented at Professional Meetings:

LeSage, James P., Yao-Yu Chih and Colin Vance “Markov Chain Monte Carlo estimation of spatial dynamic panel models for large samples,” presented at the North American Meetings of the Regional Science Association International, San Antonio, Texas, November 2018 and the Southern Regional Science Association meetings in Washington, DC, April 2019.

LeSage, James P. and Yao-Yu Chih “Bayesian model comparison for space-time dynamic panel models,” presented at the Southern Regional Science Association meetings in Washington, DC, April 2019.

Vacaflor Rivero, D. E., and James P. LeSage, SEA 88th Annual Meetings, "Spatial Determinants of Cash Transfers in Latin America," Southern Economic Association, Washington, DC., November 19 2018.

LeSage, James P. and R. Kelley Pace, “MCMC estimation of spatial autoregressive LIML regressions,” presented at the North American Meetings of the Regional Science Association International meetings, Vancouver, BC., November 2017.

Debarsy, Nicolas and James P. LeSage, “Efficient estimation of spatial regression models based on convex combinations of different types of weight matrices,” Presented at the North American Meetings of the Regional Science Association International meetings, Vancouver BC., November 2017.

LeSage, James P. and Yao-Yu Chih, “A matrix exponential spatial panel model with heterogeneous coefficients,” Presented at the Southern Regional Science Association meetings, Memphis, April 2017, and Midwest Econometrics Group meetings, College Station, Texas, October 2018.

Autant-Bernard, Corinne and James P. LeSage, “A heterogeneous coefficient approach to the knowledge production function,” presented at the Southern Regional Science Association meetings, Memphis, April 2017.

LeSage, James P. and Manfred M. Fischer, “Consistent estimation of a spatial autoregressive gravity model for international trade, presented at the European Regional Science Association meetings, Vienna, Austria, August 2016.

LeSage, James P. and Yao-Yu Chih “A Bayesian spatial panel model with heterogeneous coefficients,” presented at the Southern Regional Science Association Meetings, Washington, D.C., April 2016, at the 10<sup>th</sup> Annual Meetings of the Spatial Econometrics Association, Rome, June 2016, Western Regional Science Association meetings, Santa Fe, February, 2017

LeSage, James P. “Spatial econometric panel data model specification: A Bayesian approach,” presented at the North American Meetings of the RSAI, Atlanta, GA, November 2013.

Lacombe, Donald J., and James P. LeSage “Using Bayesian Posterior Model Probabilities to Identify Omitted Variables in Spatial Regression Models”, paper presented at the Southern Regional Science Association Meetings, Washington, D.C., March 2013.

Fischer, Manfred M., and James P. LeSage, “A Bayesian approach to identifying and interpreting regional convergence clubs in Europe, paper presented at the North American Meetings of the Regional Science Association International, Miami, FL, November, 2011, and European Society of Bayesian Econometrics, Vienna, November, 2012, Western Regional Science Association Meetings, Santa Barbara, CA, February, 2013.

LeSage, James P. and Christine Thomas-Agnan, “Interpreting spatial autoregressive interaction models,” paper presented at the Southern Regional Science Association Meetings, Charlotte, NC, March 2012.

LeSage, James P., and R. Kelley Pace, “Pitfalls in higher order model extensions of basic spatial regression methodology,” paper presented at the North American Meetings of the Regional Science Association International, Miami, FL, November, 2011.

LeSage, James P., and R. Kelley Pace, “The biggest myth in spatial econometrics,” paper presented at the Southern Regional Science Association Meetings, New Orleans, LA, March 2011, and Western Regional Science Association

Meetings, Kauai, Hawaii, February 2012.

Debarsy, Nicolas, Cem Ertur and James P. LeSage, "Interpreting dynamic space-time panel data models," presented at the Public Choice Society Meetings, San Antonio, Texas, March 12, 2011.

Pace, R. Kelley, James P. LeSage and Shuang Zhu, "Spatial Dependence in Regressors and its Effect on Estimator Performance," paper presented at the 4<sup>th</sup> World Conference of the Spatial Econometrics Association, Chicago, IL, June 2010.

LeSage, James P. and Matthew Dominguez, "The Impact of Migration on Metro- and Non-metro Marginal Tax Prices for County Government Services," paper presented at the Southern Regional Science Association meetings, Washington, D.C., April 2010.

LeSage, James P., R. Kelley Pace, Nina Lam, Richard Campanella, and Xingjian Liu, "New Orleans business recovery in the aftermath of Hurricane Katrina," paper presented at the Southern Regional Science Association meetings, Washington, D.C., April 2010.

Feng, Li and James P. LeSage "A Spatial Interaction Model examination of Public School Teacher Mobility Across Schools and Districts in Florida" paper presented at the Southern Economic Association Meetings, San Antonio, TX, November, 2009.

Parent, Olivier and James P. LeSage, "Spatial Dynamic Panel Data Models with Random Effects," paper presented at the North American Meetings of the Regional Science Association International, San Francisco, CA, November 2009.

Parent, Olivier and James P. LeSage, "Interpreting Space-time dynamic models," paper presented at the Midwest Econometrics Group meetings, Lafayette, IN, October 2009.

De la Mata, Tamara, James P. LeSage and Carlos Llano, "Social networks and trade of services: modeling interregional tourism flows with spatial and network autocorrelation effects", paper presented at the 3<sup>rd</sup> World Conference of the Spatial Econometrics Association, July 2009, Barcelona, Spain.

LeSage, James P., R. Kelley Pace and Xingjian Liu, "Business Return in New Orleans in the Aftermath of Katrina," paper presented at the Southern Regional Science Association meetings, San Antonio, TX, April 2009.

Liu, Xingjian, and James P. LeSage, "Arc\_Mat: A Matlab-based Spatial Analysis Toolbox," paper presented at the American Association of Geographers meeting, Las Vegas, NV, March 2009.

LeSage, James P. and Manfred M. Fischer, "The Impact of Knowledge Stocks on Regional Total Factor Productivity", paper presented at the North American Meetings of the Regional Science Association International, San Francisco, CA, November 2009.

Parent, Olivier and James P. LeSage, "Interpreting space time panel data models with random effects," paper presented at the Midwest Econometrics Group Meetings, Lafayette, IN, September 11, 2009.

Kirby, Dustin and James P. LeSage, "A Spatial Econometric Investigation of Commuting to Work Times," paper presented at the Southern Regional Science Association Meetings, Washington, D.C. March 2008.

LeSage, James P. "The Impact of Migration on Metropolitan and Non-Metropolitan Marginal Tax Prices for County Government Services, Public Choice Society Meetings, San Antonio, TX, March 2008.

LeSage, James P., R. Kelley Pace and Christine Thomas, "Spatial Tobit as a solution to the presence of zeros in origin-destination flow modeling," presented at the North American Meetings of the Regional Science Association International, Savannah, GA. November 2007.



LeSage, James P. and Manfred M. Fischer, "Spatial Growth Regressions: Model specification, Estimation and Interpretation" presented at the First World Conference of the Spatial Econometrics Association, Cambridge, UK, July 2007.

LeSage, James P. and Dustin K. Kirby, "An Examination of Changes Over Time in Migrants' Preferences Regarding Origin-Destination Characteristics", presented at Southern Regional Science Association, Charleston, SC March 26-29, 2007.

Pace, R. Kelley and James P. LeSage, "Interpreting Spatial Econometric Models," paper presented at the North American Meetings of the Regional Science Association International, Toronto, CA, November 2006, Institute for Advanced Studies, Vienna, Austria, December, 2006, the First World Conference of the Spatial Econometrics Association, Cambridge, UK, July 2007, and the Allied Social Science Association meetings in New Orleans, January 2008.

LeSage, James P., Manfred M. Fischer and Thomas Scherngell, "Knowledge Spillovers across Europe, Evidence from a Poisson Spatial Interaction Model with Spatial Effects," Plenary session presentation at the ADRES International Conference: Networks of Innovation and Spatial Analysis of Knowledge Diffusion, St. Etienne, France, September, 2006.

LeSage, James P. "Using ArcView Mapping files in statistical software programs" invited presentation in a session entitled *Graphical Tools for Spatial Econometrics*, Christine Thomas-Agnan, University of Toulouse organizer. Joint Statistical Meetings of the American Statistical Association, Seattle, Washington, August 10, 2006.

LeSage, James P. and Wolfgang Polasek, "Incorporating transportation network structure in spatial econometric models of commodity flows," presented at the International Workshop on Spatial Econometrics and Statistics, Rome, Italy, May 2006.

Autant-Bernard, Corrine, James P. LeSage, and Olivier Parent, "Firm innovation strategies: a spatial multinomial probit approach," presented at the International Workshop on Spatial Econometrics and Statistics, Rome, Italy, May 2006, and at the the ADRES International Conference: Networks of Innovation and Spatial Analysis of Knowledge Diffusion, St. Etienne, France, September, 2006, and the North American Meetings of the Regional Science Association International, Toronto, CA, November 2006.

LeSage, James P. and R.K. Pace, "Spatial econometric modeling of origin-destination flows," presented at the International Workshop on Spatial Econometrics and Statistics, Rome, Italy, May 2006, the Southern Regional Science Association Meetings, St. Augustine, FL, April, 2006 the Regional Science Association International meetings, Las Vegas, NV, November, 2005, and the Fourth Annual Spatial Econometrics Workshop, Toulouse, France, June, 2005,

LeSage, James P. and Carlos Llano, "A spatial interaction model with spatially structured origin and destination effects," presented at the International Workshop on Spatial Econometrics and Statistics, Rome, Italy, May 2006.

Parent, Olivier and James P. LeSage, "Using the variance structure of the conditional autoregressive spatial specification to model knowledge spillovers," presented at the International Workshop on Spatial Econometrics and Statistics, Rome, Italy, May 2006.

LeSage, James P. and Olivier Parent, "Seemingly Unrelated Regression Models with Latent Spatiotemporal Autoregressive Effects," presented at the International Conference on Latent Structural Modelling and Analysis for Spatio-Temporal Data, Kyoto, Japan, December, 2005.

LeSage, James P. and Olivier Parent, "Bayesian Model Averaging for Spatial Econometric Models," presented at the Regional Research Institute West Virginia University, Morgantown, West Virginia, March, 2005 and the Southern Regional Science Association Meetings, Washington, D.C., April; 2005.

LeSage, James P. and R.K. Pace, "Arc-Mat: A MATLAB interface to ArcView mapping files," presented at the Southern Regional Science Association Meetings, New Orleans, LA, March, 2004, and the Third International Conference on Geographic Information Science, College Park, Maryland, October 20-23, 2004

LeSage, James P. "Application of Bayesian Methods to Spatial Econometrics", presented at Regional Science Association International meetings in San Juan, Puerto Rico November 2002.

Smith, Tony E. and James P. LeSage, "A Bayesian Probit Model with Spatial Dependencies," presented at Regional Science Association International meetings in Charleston, SC November 2001.

LeSage, James P. and R.K. Pace, "Using Matrix Exponentials to Explore Spatial Structure in Regression Relationships," presented at the Regional Science Association International Meetings, Chicago, IL November 2000.

## 2. Invited Talks, Lectures, & Presentations:

LeSage, James P. and Yao-Yu Chih "Bayesian model comparison for space-time dynamic panel models" keynote presentation given at the AERUS 2019 meetings, University of Illinois, April 2019.

LeSage, James P. "The impact of econometric modeling methods on regional science thinking" Journal of Regional Science Plenary Lecture, North American Meetings of the Regional Science Association International, San Antonio, Texas, November 2018.

LeSage, James P. "Fast MCMC estimation of multiple W-matrix spatial regression models and Metropolis Hastings-Monte Carlo log marginal likelihoods" Keynote presentation, World Meetings of the Spatial Econometrics Association, Vienna, Austria, May 2018.

LeSage, James P. "Mixing spatial and other types of cross-sectional dependence" Getis-Ord Lecture, Western Regional Science Association meetings, Santa Fe, New Mexico, February 2017.

LeSage, James P. Bayesian Estimation of heterogeneous coefficient spatial autoregressive models, 15th International Workshop on Spatial Econometrics and Statistics, Orleans, France May 2016, and Technical University, Dortmund, Germany October 27, 2016.

LeSage, James P. "What economists should know about spatial econometrics," presented at the Jean Monnet University, GATE LSE, St. Etienne, France January 2014.

LeSage, James P. Spatial econometric panel data model specification: A Bayesian approach, 13th International Workshop on Spatial Econometrics and Statistics, Toulon, France April 2014.

LeSage, James P. What regional scientists need to know about spatial econometrics, Fellows Address, Annual meeting of the Southern Regional Science Association San Antonio, TX, April 2014.

LeSage, James P. "Spatial econometric panel data model specification: A Bayesian approach," presented at the Vienna University of Economics and Business, December 2013.

LeSage, James P. "Issues with interpretation of spatial probit model estimates presented at the 9<sup>th</sup> Choice Symposium, Erasmus School of Economics, Emerging Developments in Spatial and Social (SS) Interactions in Choice Modeling tract, Noordwijk, The Netherlands, June 12-16, 2013.

LeSage, James P. "Interpreting spatial econometric origin-destination flow models, Keynote lecture, presented at the 3<sup>rd</sup> International Conference on Spatial Economics, Wuhan University, Economics and Management School, June 21-23, 2013.

Pace, R. Kelley, James P. LeSage, and Shuang Zhu, "Quantifying spatial spillovers using simulated maximum likelihood spatial probit model estimates," invited paper presented at the Joint Statistical Meetings, San Diego, CA, July 2012.

LeSage, James P. "The role of spillovers in regional science," Keynote presentation at the European Regional Science Association Meetings, Bratislava, Slovakia, August 2012.

LeSage, James P., and R. Kelley Pace, "The biggest myth in spatial econometrics," Institute for Economic Geography and GIScience, Vienna University of Economics and Business, Vienna, Austria, January 2012.

LeSage, James P., and R. Kelley Pace, "Pitfalls in higher order model extensions of basic spatial regression methodology," Departmental Research Seminar, West Virginia University, Morgantown, West Virginia, October 2011.

LeSage, James P. "Modeling structures of dependence in data using what we have learned from spatial dependence," invited presentation at Wuhan University, School of Natural Resources and Environmental Sciences, Wuhan, China, October 2011.

LeSage, James P. "Session Discussant: Applications and Innovations in Spatial Econometrics", Southern Agricultural Economics Association meetings, Corpus Christi, Texas, February 2011.

Debarsy, Nicolas, Cem Ertur and James P. LeSage, "Interpreting dynamic space-time panel models, presentation to the Texas Tech University Department of Agricultural Economics, September 2010, Lubbock, Texas.

Pace, R. Kelley, James P. LeSage and Shuang Zhu, "Spatial Dependence in Regressors and its Effect on Estimator Performance," invited presentation at the 9<sup>th</sup> Workshop on Spatial Econometrics and Statistics, June 2010, Orleans, France.

LeSage, James P. "(Spatial) Econometrics Toolbox for MATLAB", an invited presentation at the 4<sup>th</sup> World Conference of the Spatial Econometrics Association, Chicago, IL, June 2010.

LeSage, James P. "New Orleans business recovery in the aftermath of Hurricane Katrina," Texas A&M Department of Agricultural Economics, February 19, 2010.

Koch, Wilfried and James P. LeSage, "Latent Multilateral Trade Resistance Indices: Theory and Evidence," invited presentation at The Econometrics of Interactions conference, Universite de Montreal, Montreal, Quebec Canada, October 2009, Southern Methodist University, Dallas, Texas, February 2010, and Universite de Orleans, France June 2010, and the Swiss National Science Foundation Workshop on Spatial econometric modeling of origin-destination flows, Lugano, Switzerland September 2011.

LeSage, James P., "Interpreting space and space-time panel models," Universite Toulouse I, Sciences Sociales, Faculte des Sciences Economiques, June 2009.

LeSage, James P., "Spatial probit models, estimation and interpretation," keynote address, 3<sup>rd</sup> World Conference of the Spatial Econometrics Association, July 2009, Barcelona, Spain.

LeSage, James P., "Dynamic spatial panel probit models," Invited presentation, 8<sup>th</sup> Workshop on Spatial Econometrics and Statistics, June 2009, Besancon, France.

LeSage, James P. and Manfred M. Fischer, "Using dependence to measure the impact of tacit knowledge stocks on regional total factor productivity," Stanford Institute for Theoretical Economics Workshop on *Complex Data in Economics and Finance: Spatial Models, Social Networks and Factor Models*, July 2008.

LeSage, James P. "Bayesian Methods in Spatial Econometrics," Invited Presentation to NSF Workshop on Spatial Filtering, University of Texas at Dallas, June 2008.

LeSage, James P. "Spatial Econometrics and Models of Knowledge Spillovers," Seventh Annual Spatial Econometrics Workshop, Paris, June 2008.

LeSage, James P. "Motivations for Spatial Regression Models," Invited Presentation to Social Science in Place: GIS & Spatial Concepts series, University of California at Berkeley, February 2008.

LeSage, James P. "A report card for econometric modeling in regional science," Presidential Address to the North American Meetings of the Regional Science Association International, Savannah, GA. November, 2007, and to the Institute for Economic Geography and GIScience, Vienna University of Economics and Business Administration, December 2007.

Blankmeyer, Eric, James P. LeSage, J. R. Stutzman, Kris Joseph Knox and R. Kelley Pace, "Statistical Modeling of Structured Peer Group Dependence Arising from Salary Benchmarking Practices", presented at Universite de Toulouse I, June 2007, University of Cincinnati Department of Economics Colloquium series, September 2007.

LeSage, James P. "Statistical Motivations for Spatial Econometric Models", 6th Annual Spatial Econometrics and Statistics" workshop 4-5 June 2007, Dijon, France

LeSage, James P. and Manfred M. Fischer, "Spatial Growth Regressions: Model specification, Estimation and Interpretation" Annual Meeting of the Austrian Economic Association, Klagenfurt, Austria, May 2007.

LeSage, James P. "Model Comparison for Spatial Econometric Models," Institute for Economic Geography and GIScience, Vienna University of Economics and Business Administration, December 2006.

LeSage, James P. "Using the Spatial Econometrics Toolbox for estimation of spatial regression models and mapping in MATLAB," keynote address at the Australian Research Council, Research Network for a Spatially Integrated Social Science (ARCRNSISS) workshop University of Newcastle, Australia, June 2005.

LeSage, James P. "Bayesian Methods for Spatial Model Comparison," presented at the Third Annual Spatial Econometrics Workshop, Strasbourg, France, June 2004 and Australian Research Council, Research Network for a Spatially Integrated Social Science (ARCRNSISS) workshop University of Newcastle, Australia, June 2005.

LeSage, James P. "A Matrix Exponential Spatial Specification," co-authored with R. Kelley Pace, Universite de Montreal, Dagnais Econometrics Seminar, September 2003, and the Institute for Advanced Studies, Vienna Austria, June 2004.

LeSage, James P. "Application of Bayesian Methods to Spatial Econometrics," Spatial Econometrics Workshop, LATEC, Universite Bourgogne, Dijon, France, May 2003, and the University of Arkansas, Mathematics Department Colloquium series, April 2003.

LeSage, James P. and Tony E. Smith, "A Bayesian Probit Model with Spatial Dependencies," Spatial Econometrics Workshop, GREMAQ, Universite Toulouse I, France, June 14, 2002 and a conference Spatial and Spatiotemporal Econometrics at Louisiana State University, Baton Rouge, LA, November 2003.

LeSage, James P. and R. Kelley Pace, "Models for Spatially Dependent Missing Data," Regional Research Institute, West Virginia University, Morgantown, West Virginia, April 5, 2002, and University of Maryland Econometrics Seminar, October 23, 2002.

LeSage, James P. and R. Kelley Pace, "Using Matrix Exponentials to Explore Spatial Structure in Regression Relationships," Ohio State University, Department of Agricultural, Environmental, and Development Economics, March 2001, and University of California - Irvine, Department of Economics, May 2001.

### 3. Consultancies:

#### 4. Workshops:

Workshop on Spatial Econometrics, Ruhr Graduate School in Economics, October 24-26, 2016.

European Regional Science Association Workshop: Spatial Econometrics using Matlab and R, Vienna Austria, August 24, 2016 with Roger Bivand.

Workshop on Spatial Econometrics, Wuhan University, School of Economics and Management, Wuhan China, March 2014.

Presentation on Spatial Econometrics, China Normal University, Wuhan China, March 2014.

Advanced Courses in Economics: Spatial Regression Models with MATLAB, Universidad Autónoma de Madrid, Madrid Spain, October 2012.

Introduction to Spatial Econometrics, Wuhan University, College of Resources and Environmental Science, Wuhan China, September 2012.

Spatial Econometrics workshop, Universite Toulouse I, France, March 2010.

LeSage, James P. "Introduction to Spatial Econometrics," Regional Research Institute Workshop, West Virginia University, Morgantown, West Virginia, May 2009.

LeSage, James P. "Introduction to Spatial Econometrics," Workshop for Carleton College faculty, Northfield Minnesota, March 2009.

LeSage, James P. "Bayesian Methods in Spatial Econometrics," Invited Presentation to NSF Workshop on Spatial Filtering, University of Texas at Dallas, Dallas, Texas, June 2008.

A short course on Spatial Econometrics for 60 European researchers and students, University of Coimbra, Coimbra, Portugal, March 2006.

A short course on Spatial Econometrics, for graduate students in Regional Economics, Department of Economics, West Virginia University, Morgantown, West Virginia, March 2005.

A short course on Spatial Econometrics, for faculty and graduate students at the Institute for Advanced Studies, Vienna, Austria, June-July, 2004.

A short course on Spatial Econometrics, for faculty and graduate students at the Regional Research Institute, West Virginia University, December 2003.

A short course on Spatial Econometrics, for faculty and graduate students at Centro de Investigacion y Docencia Economicas (C.I.D.E) located in Mexico City, December 2002.

A short course on Spatial Econometrics, for Economics Ph.D. students at the Universite Toulouse I, France, Spring 2002.

National Science Foundation, invited participant at a workshop entitled "Spatial Statistics in the Social Sciences," June 19-24, 2000, University of Washington, Seattle, WA.

Department of Defense invited participant at a workshop entitled "Mining Scientific Datasets," Army High Performance Computing Research Center, University of Minnesota, Minneapolis, MN, July 27-29, 2000. I was a panel participant on a session entitled "Mining Spatial Datasets: A New Frontier for Data Mining".

#### 5. Other:

## Work in Progress:

Vacaflares, Diego and James P. LeSage, "Peer effects in adoption of Cash Transfer Programs by Latin American countries," submitted to *Journal of Geographical Systems*.

Debarsy, Nicolas and James P. LeSage, "Bayesian model averaging for spatial regression models based on convex combinations of different types of weight matrices" submitted to *Journal of Business & Economic Statistics*.

LeSage, James P. and Manfred M. Fischer, "Cross-sectional dependence specifications for gravity models involving trade flows," submitted to *Spatial Economic Analysis*.

## C. Grants and Contracts

## 1. Funded External Grants and Contracts:

2007-2010, \$356,000 "Collaborative Research: (DRU) Modeling Business Return Amid Post-Disaster Uncertainties: New Orleans After Katrina," Human and Social Dynamics (HSD) SES-0729264 FY 2007 Competition DRU: Disasters and Decision Making., with co-PI's from LSU and Tulane, R. Kelley Pace, Nina Lam and Richard Campanella, SES-0729259.

2007-2009, \$ 211,543, "Modeling Business Return in New Orleans after Katrina: Its Implications for Gulf of Mexico Economic Recovery," Gulf of Mexico SEA Grant Programs NA06OAR41770076, with co-PI's from LSU and Tulane, R. Kelley Pace, Nina Lam and Richard Campanella.

2002-04, \$130,000 "Discrete Choice Spatial Models," National Science Foundation BCS-0136229, J.P. LeSage PI, with co-PI R.K. Pace.

2002-04, \$130,000 "Spatially Additive Models," National Science Foundation BCS-0136193, R.K. Pace PI, with co-PI J.P. LeSage.

1995, \$23,000, Ohio Bureau of Employment Services, "Developing Short-Run Labor Market Forecasting Models," funded by the Economic Training Administration, ALMIS project through OBES, a member of the project consortium.

1992, \$10,000, Ohio Supercomputer Center, "Modeling Spatial Heterogeneity with Multiprocess Mixture Models," for supercomputer time on the CRAY at Ohio State.

1986, \$55,000, "Development of Ohio and Ohio MSA Leading Economic Indicators," Ohio Bureau of Employment Services, Labor Market Information Division, with Michael Magura (University of Toledo), and Richard Sheridan (Cleveland State University).

1985 \$23,000, "Linking Regional Econometric Models," received from the Ohio Board of Regents, Urban Universities Research Program, coauthored with Michael Magura (University of Toledo).

## 2. Submitted, but not Funded, External Grants and Contracts:

Zhan, F B. (Principal), Percent Contribution: 54.17%, Haskard Zolnierrek, Kelly B. (Co-Principal), Percent Contribution: 25%, LeSage, James (Co-Principal), Percent Contribution: 16.67%, Lu, Yijuan (Co-Principal), Percent Contribution: 16.67%, Price, Larry R. (Co-Principal), Percent Contribution: 8.33%, Chow, Tzee Kiu E. (Co-Principal), Percent Contribution: 16.67%, Lu, Yongmei (Co-Principal), Percent Contribution: 16.67%, Villagran, Melinda M. (Co-Principal), Percent Contribution: 25%, Raley, Jessica A. (Co-Principal), Percent

Contribution: 25%. Spatial Data Science and Health Geographic Core for Cancer Research and Prevention, State, \$5,969,288.00. (Submitted: January 30, 2018)..

A 1-year grant, \$42,090 “Collaborative Research: Distance to Urban Production Externalities and Amenities: Mapping the Costs of Remoteness,” National Science Foundation, January 15, 2007, co-PI's Mark Partridge, Ohio State University and Dan Rickman, Oklahoma State University.

A 3-year grant, \$1,479,711 “Causal Mechanisms Linking Biodiversity and Poverty Across Spatial Scales” National Science Foundation, Dynamics of Coupled Natural and Human Systems (CNH) NSF Program Solicitation 06-587, December, 2006, co-PI's Michael Huston, Ani Yazedjian and Nathan A Currit Texas State University.

A 3-year grant (2006-09) to the National Science Foundation entitled: “Does a Rising Tide Lift all Boats? A Place-Based Analysis of Community Poverty Rates,” co-PI with Dan Rickman (Oklahoma State University).

A 1-year grant (2005-06) to the National Science Foundation, entitled: “Collaborative Research: Spatial Modeling and Estimation of Interregional Flows,” co-PI with Randall W. Jackson (West Virginia University).

A 2-year grant (2005-07) to the National Science Foundation, entitled: “Collaborative Research: Spatial feasible differencing,” co-PI with R. Kelley Pace, (LSU).

A 5-year grant (2004-09) to the National Science Foundation, entitled: “A Collaborative Proposal for Spatial Econometric Modeling of Migration,” co-PI with R. Kelley Pace, (LSU) and Tony E. Smith, (University of Pennsylvania).

A 5-year grant (2003-08) submitted to the National Science Foundation, entitled: “Center for Decision-making under uncertainty and Climate Change,” submitted by LSU. I was one of the team members on the grant proposal.

A 3-year grant (2003-06) submitted to the National Science Foundation, entitled: “Accelerated Value Chain Innovation of Load-Bearing Polymer Nanocomposites,” PI: University of Toledo Engineering Dean Nagi Naganathan, CO-PI, John Dismukes, University of Toledo engineering. I was one of the team members on the grant proposal.

### 3. Funded Internal Grants and Contracts:

2001, 2002, 2003, \$15,000, Ohio Urban University Program, Cleveland State University, “Statistical Updating of the ES202 data”.

2001, \$8,000, Urban Affairs Center, release time from teaching during Spring Semester 2001, “Using Matrix Exponentials to Explore Spatial Structure in Regression Relationships”.

1998, \$29,000, Ohio Urban University Program, Cleveland State University, Released time from teaching Spring Semester 1998-99, “Statistical Cleaning of the ES202 data”.

1994, \$2,200, “Using Spatial Contiguity as a Prior in Regional Modeling and Forecasting,” from the Research Council, University of Toledo, to fund a graduate assistant during the summer of 1994.

1992, 1993, 1994, 1995, 1996, 1997, and 1998 several projects totaling \$33,000, from tile Urban Affairs Center, University of Toledo, to provide released time from teaching.

1991, \$9,000, Urban Affairs Center, University of Toledo, Released time from teaching “A Comparison of Economic Activity in the City of Toledo versus the Toledo Metropolitan Area”.

1990, \$2,200, "The Impact of Money Supply Announcements on Interest Rates: A Multiprocess Class I Mixture Model Approach," from the Research Council, University of Toledo, to fund a graduate assistant during the summer of 1990.

1990, \$5,151, "Assessing the Turning Point Accuracy of Ex Ante Forecasts," funded as a summer Faculty Research Associate Fellowship, by the Research Council, University of Toledo.

1989, \$14,000, "Research in Forecasting Regional Economic Conditions," with Michael Magura (University of Toledo), December 1989 from Ohio Board of Regents Research Excellence Program.

1986/7 \$20,000, "Regional Payroll Forecasting Using Pooled Metropolitan Data," received from the Ohio Board of Regents, Urban Universities Research Program, coauthored with Michael Magura (University of Toledo).

1986, \$7,000, "Artificial Intelligence in Econometric Forecasting," Bowling Green State University, Faculty Research Committee, Major Grant Award.

1986, \$37,000, "An Econometric Development Model of Intercity and Interindustry Labor Market Relationships," Ohio Board of Regents, Research Challenge, with F. Tank, M. Magura (University of Toledo), and J. David Reed (BGSU).

#### D. Fellowships, Awards, Honors:

Best Referee, Spatial Economic Analysis, 2014, Regional Studies Association award.

Elected Fellow of the Southern Regional Science Association, March 2013.

Presidential Seminar Award, Texas State University-San Marcos, August 2010, the highest research award at Texas State University.

Valero Research Award, Texas State University-San Marcos, August 2010.

Elected Fellow of the Regional Science Association International, 2009.

Elected Fellow of the Spatial Econometrics Association, 2007.

Professor Emeritus, University of Toledo, Department of Economics, 2008.

The James K. Larson Award for Outstanding Career Achievement by a University of Toledo Honors Program Graduate, April 2007.

Over 12,000 Google Scholar citations, over 7,000 since 2013.

Listed among the top 30 scholars based on publications in 10 regional science journals during 2010-2014, in "Ranking Authors and Institutions by Publications in Regional Science Journals: 2010-2014," Dan S. Rickman and John V. Winters, *Growth and Change* 2016, 47:2, 312-336.

Listed among the most cited scholars during the 1990-2001 period in "Intellectual leaders of regional science: a half-century citation study," Andrew M. Isserman, *Papers in Regional Science*, 2004, 83, 91-126.

Named as one of the 10 most influential authors in regional science over the period 1990-99 (based on pages published and citations) in, "Regional Science Publication Patterns in the 1990s," Sergio Rey and Luc Anselin, *International Regional Science Review*, 2000, 23, 323-344, 2000.)

Named in the "Applied Econometrics Hall of Fame", a list of the top 50 publishers worldwide of applied econometrics research in 15 leading economics journals. "Applied Econometrics Rankings: 1989-95," by Badi H. Baltagi, *Journal of Applied Econometrics*, 1999, 14: pp. 423-441.



Listed as one of the top 1000 economists worldwide based on publications and citations, RePEc website:  
<http://ideas.repec.org/coupe.html>

McCoy College of Business Administration, Dean Nominee for the Presidential Award for Excellence in Scholarly/Creative Activities, McCoy College of Business, Texas State University-San Marcos, 2007-08, 2009-10.

Outstanding Research Award, Department of Finance and Economics, Texas State University-San Marcos, 2007-08, 2008-09.

University of Toledo Outstanding Researcher Award, 2002-03.

University of Toledo College of Arts and Sciences Dean's Merit Award 1996, 1993, 1990.

University of Toledo, College of Arts and Sciences Interdisciplinary Teaching Fellowship Award, 1992

University of Toledo Foundation, Program Excellence Award, 1991.

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#### **IV. SERVICE**

##### **A. University:**

Served on or chaired numerous College and University committees, including acting as co-chair of the University of Toledo President's Task Force on Budget Prioritization.

##### **B. Departmental:**

Acting Chair, Department of Economics, University of Toledo, 1997-98.

Director of Graduate Program, Department, of Economics, University of Toledo 1993-94, 1997-98.

##### **B. Community:**

Greater San Marcos Partnership, co-author with John Bedlow of a research report: *A summary of the analysis and motivators of growth in the Austin-San Antonio corridor*, sponsored by GSMP, San Marcos, Texas. This was part of a broader five-part study entitled: *The Texas Way of Urbanism*, that included Austin, Dallas, Houston and San Antonio, coordinated by Joel Kotkin, Presidential Fellow in Urban Futures at Chapman University in Orange, California.

Economic Outlook luncheon presentation given to the Austin Chamber of Commerce, December 2010.

Texas Cast Metals Association and the Texas Chapter AFS, April 2010.

Presentation given at the San Marcos Chamber of Commerce Annual Economic Outlook luncheon, March 2010.

Presentation given to Leadership San Marcos, February 2009.

Presentation given at the San Marcos Chamber of Commerce Annual Economic Outlook luncheon, March 2009.

City of San Marcos Rental Registration Review Group (2007-08).

Report on City Council Water Distribution Study, University of Toledo Urban Affairs Center and City of Toledo Council, 1994, co-authored with Lawrence J. Connin (University of Toledo).

Presentation: “Economic Development Northwestern Ohio Style: Beggar thy neighbor,” co-authored with Lawrence J. Connin (University of Toledo) at the Great Lakes Economic Development Association, October, 1995.

A luncheon presentation entitled “Comparing the accuracy of alternative models and methods for short-term employment forecasting,” to the Columbus Association of Business Economists, March, 1996.

Arrowhead Park: An Update, University of Toledo Urban Affairs Center, 1998.

#### D. Professional:

Co-Editor, with Giuseppe Arbia and Lung-fei Lee of *Journal of Spatial Econometrics*, March 2019 – present.

Co-Editor, with Jouke van Dijk and Philip McCann of *Papers in Regional Science*, January 2007-2012.

Editor, Spatial Econometrics Section, Handbook of Regional Science 2<sup>nd</sup> Edition, January 2018-2020

Editor, Spatial Econometrics Section, (Springer Major Reference Work) Handbook of Regional Science, January 2010-2013.

Co-editor with Sudipto Banerjee, Manfred Fischer and Peter Congdon, Special Issue Spatial Statistics: Methods, Models & Computation, *Computational Statistics and Data Analysis*, Volume 53, Issue 8, June 2009.

Co-editor with Corinne Autant-Bernard and Nadine Massard of a special issue of *Annales d'Economie et de Statistique* entitled: “Networks of Innovation and Spatial Analysis of Knowledge Diffusion.” 87-88, July-December 2007.

Guest Editor for a Special issue of *Review of Regional Studies* in honor of Manfred M. Fischer, Volume 37, number 1, Summer, 2007.

R. Kelley Pace and James P. LeSage, (eds.): “Special Issue: Spatial Statistics and Real Estate,” *Journal of Real Estate Finance and Economics*, (2004) Volume 29, number 2.

James P. LeSage, R. Kelley Pace and Michael Tiefelsdorf (eds.) “Special Issue: Methodological Developments in Spatial Econometrics and Statistics,” *Geographical Analysis*, 2004, Volume 36.

Editorial Board, *Papers in Regional Science*, 2013-present

Editorial Board, *Annals of Regional Science*, 2013-present

Editorial Board, *Regional Science & Urban Economics*, 2012-present

Editorial Board, *Geographical Analysis* 2000-present.

Editorial Board, *Review of Regional Studies* 2002-present.

Editorial Board, *Papers in Regional Science* 2005-2006.

Editorial Board, *Journal of Geographical Systems*, 2006-present.

Editorial Board, *Letters in Spatial and Resource Sciences*, December 2006-present

Scientific Committee of the 2020 RSAI World Congress in Marrakech, Morocco

Scientific Committee, International Network for Economic Research, 2014.

Scientific Committee, 14th International Workshop of Spatial Econometrics and Statistics, Paris May 2015.

Conference Programme Committee, 2006 ADRES International Conference: Networks of Innovation and Spatial Analysis of Knowledge Diffusion, St. Etienne, France, September, 2006.

President, North American Regional Science Council, 2006-07.

North American Regional Science Council representative to Regional Science Americas, 2007-2010.

Counselor-at-large representative, Regional Science Association International, 1997, 1998, 1999.

Executive Council, Southern Regional Science Association, April 2007-present.

I have reviewed articles for: Advances in Decision Sciences, Agricultural Economics, American Association of Geographers, Annals of the American Association of Geographers, Annals of Regional Science, Annals of Statistics, Case Studies in Business, Industry and Government Statistics, China Economic Review, Communications in Statistics: Simulation and Computation, Computational Statistics and Data Analysis in Economics & Management Sciences, Contemporary Economics, Criminology, Econometric Reviews, Economic Geography, Economic Inquiry, Economics and Human Biology, Empirical Economics, Energy Policy, Entropy, Environment and Planning B, Environmental Science and Technology, European Review of Agricultural Economics, Geographical Analysis, Geographical Information Sciences, Geographical and Environmental Modeling, Growth and Change, International Journal of Geographical Information Systems, International Journal of Forecasting, International Regional Science Review, Journal of Agricultural and Resource Economics, Journal of the American Statistical Association, Journal of Applied Economics, Journal of Computational and Graphical Statistics, Journal of Business & Economic Statistics, Journal of Economic Development, Journal of Economic and Social Measurement, Journal of Econometrics, Journal of Environmental Assessment and Policy, Journal of Geographical Systems, Journal of Housing Economics, Journal of the Royal Statistical Society, Journal of Theoretical and Institutional Economics, Journal of Macroeconomics, Journal of Money, Credit, and Banking, Journal of Political Economy, Journal of Real Estate Finance and Economics The Journal of Regional Analysis and Policy, Journal of Regional Science, Journal of Transportation Research: Part B, Journal of Transportation and Statistics, Letters in Spatial and Resource Sciences, Management Science, North American Journal of Fisheries Management, Pakistan Journal of Statistics, Papers in Regional Science, Political Science and Research Methods, Population Research and Policy Review, Population, Space and Place, PROMET Traffic & Transportation, Public Choice, Regional Science and Urban Economics, Regional Science Perspectives, Review of Economics and Statistics, Review of Regional Studies, Review of Urban & Regional Development Studies, Review of World Economics, Scottish Journal of Political Economy, Southern Economic Journal, Spatial Economic Analysis, Structural Change and Economic Dynamics, Transportation Research Board.

## E. Organizations

### 1. Honorary:

Beta Gamma Sigma International Honor Society, Texas State University-San Marcos

Phi Kappa Phi National Honor Society, University of Toledo

### 2. Professional:

Regional Science Association International, Southern Regional Science Association, Western Regional Science Association, Spatial Econometrics Association.