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BADI H. BALTAGI

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EDUCATION

University of Pennsylvania, Ph.D. Economics, December 1979.
Carnegie-Mellon University, M.S. Statistics, May 1975.
American University of Beirut, B.A. Statistics, February 1974.

ACADEMIC POSITIONS

Distinguished Professor of Economics, Syracuse University, 2005-present.
Part-time Chair in Economics, University of Leicester, 2004-present.
George Summey Jr., Professor of Liberal Arts, Texas A&M University, 1993-2005.
Professor of Economics, Texas A&M University, 1988-2005.
Associate Professor of Economics, University of Houston, 1984-1988.
Visiting Professor, University of California-San Diego, 2002.
Visiting Professor, University of Arizona, 1996.
Visiting Professor, Université Paris II, 2003-2020.
Assistant Professor of Economics, University of Houston, 1979-1984.

RESEARCH EXPERIENCE

Senior Research Associate, Center for Policy Research, Syracuse University, 2005-present.
Research Fellow, CESifo, Munich Society for the Promotion of Economic Research, 2003-present.
Research Fellow, Institute for Labor Research (IZA), Bonn, Germany, 2002-present.
Global Labor Organization (GLO) Fellow.
Lifetime Fellow of the *Economic Research Forum* of the MENA region.
Research Fellow, Private Enterprise Research Center, Texas A&M University, 1991-2005.
Research Fellow, Center for Public Policy, University of Houston, 1982-1988.

EDITORIAL DUTIES

Editor, *Economics Letters*, 2011-present.
Editorial Board, *Econometric Reviews*, 1994-present.
Associate Editor, *Journal of Econometrics*, 1999-2018.
Replication Editor, *Journal of Applied Econometrics*, 2003-2018.
Editor, *Empirical Economics*, 1999-2018.
Editorial Board, *Empirical Economics*, 1994-2018.

Series Editor, *Contributions to Economic Analysis*, Emerald Publishing, 2003-present.
Series Editor, *Advanced Studies in Theoretical and Applied Econometrics*, Springer, 2012-present.
Advisory Board, *Journal of Spatial Econometrics*, Springer, 2020-present.

HONORS and AWARDS

Fellow of the *Journal of Econometrics*, 1995.

Econometric Theory Multa Scripsit Award, 1998.

Econometric Theory Plura Scripsit Award, 2004.

Journal of Applied Econometrics Distinguished Authors Award, 2008.

Fellow of the *Advances in Econometrics*, 2012.

Fellow of *Econometric Reviews*, 2018.

Distinguished Achievement Award in Research, The Association of Former Students, Texas A&M University, 2002.

Founding fellow and member of the Board of Directors of the *Spatial Econometrics Association*, 2006.

<https://www.spataleconometricsassociation.org/the-association/>

Fellow of the *International Association for Applied Econometrics*, 2017.

<https://www.applieconometrics.org/about/fellows>

Director and Founding Member of the *International Association for Applied Econometrics*: 2012-2014.

<https://www.applieconometrics.org/directors-founding-members>

Lifetime Fellow of the *Economic Research Forum* of the MENA region.

<https://erf.org.eg/affiliates/badi-baltagi/>

Elected fellow (2016) of the *Society for Economic Measurement (SEM)*

http://sem.society.cmu.edu/SEM_Fellows.asp.

Kuwait Prize 2018 for Economics and Social Sciences.

Ranked 27 among all **economics** authors in the state of **New York** by REPEC as of December 2021.

<https://ideas.repec.org/top/top.usa-ny.html#authors>

Ranked 36 among all **econometrics** authors in the **world** by REPEC as of December 2021.

<https://ideas.repec.org/top/top.ecm.html#authors>

There are **47,894 citations** for my published work by **Google Scholar**, as of January 2022.

<https://scholar.google.com/citations?user=XWrDL6IAAAAJ&hl=en>

Ranked among the top 20 most prolific authors in the *Journal of Econometrics* from 1973-2012 (see Table 1 of Andrikopoulos, Samitas and Kostaris (2016), ‘Four decades of the *Journal of Econometrics*:

Coauthorship patterns and networks,’ *Journal of Econometrics* 195 (2016) 23-32.

A special issue of *Empirical Economics* in my honor, see Li, Q., Sarafidis, V. & Westerlund, J. “Essays in honor of Professor Badi H Baltagi,” *Empirical Economics* 60, 1–11 (2021).

<https://doi.org/10.1007/s00181-020-02005-z>

PROFESSIONAL MEMBERSHIP

Past member of the *Econometric Society*, *American Statistical Association*, and *International Statistical Institute*.

Secretary/Treasurer, Business and Economics Sections, *American Statistical Association*, 2000.

Chair-Elect, Business and Economics Sections, *American Statistical Association*, 2005.

Member of the *Scientific Committee* for the *International Conferences on Panel Data*.

Member of the *Scientific Committee* for the *International Conferences on Spatial Econometrics and Statistics*.

Member of the *Scientific Committee* for the following *International Association for Applied Econometrics* conferences: Queen Mary, London (2014), Thessaloniki, Greece (2015).

PUBLICATIONS

1. “On Seemingly Unrelated Regressions with Error Components,” *Econometrica*, Vol. 48, Issue 6 (September, 1980), 1547-1551. (184 citations by Google Scholar).
<http://www.jstor.org/stable/1912824>
2. “Pooling: An Experimental Study of Alternative Testing and Estimation Procedures in a Two-Way Error Components Model,” *Journal of Econometrics*, Vol. 17, Issue 1 (September, 1981), 21-49.

- (127 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(81\)90057-9](https://doi.org/10.1016/0304-4076(81)90057-9)
3. "Simultaneous Equations with Error Components," *Journal of Econometrics*, Vol. 17, Issue 2 (November, 1981), 189-200. (369 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(81\)90026-9](https://doi.org/10.1016/0304-4076(81)90026-9)
 4. "Gasoline Demand in the OECD: An Application of Pooling and Testing Procedures," with James Griffin, *European Economic Review*, Vol. 22, Issue 2 (July, 1983), 117-137. (279 citations by Google Scholar). [https://doi.org/10.1016/0014-2921\(83\)90077-6](https://doi.org/10.1016/0014-2921(83)90077-6)
 5. "U.S. Gasoline Demand: What Next?" with James M. Griffin, *The Energy Journal*, Vol. 5 (January, 1984), 129- 140. (18 citations by Google Scholar). <http://www.jstor.org/stable/41321642>
 6. "A Monte Carlo Study for Pooling Time Series of Cross-Section Data in the Simultaneous Equations Model," *International Economic Review*, Vol. 25 (October 1984), 603-624. (52 citations by Google Scholar). <http://www.jstor.org/stable/2526221>
 7. "Short and Long Run Effects in Pooled Models," with James M. Griffin, *International Economic Review*, Vol. 25 (October 1984), 631-645. (231 citations by Google Scholar). <http://www.jstor.org/stable/2526223>
 8. "Small Sample Results on Schmidt's Truncated Remainder to the Gamma Distributed Lag," with Jay R. Ferry, *Statistical Papers*, Vol. 26 (June 1985), 87-95. <https://doi.org/10.1007/BF02932523>
 9. "The Bias of the Estimated Variances of Least Squares Estimators in an Error Components Model," *Statistical Papers*, Vol. 26 (June 1985), 147-155.
 10. "Pooling Cross-Sections with Unequal Time-Series Lengths," *Economics Letters*, Vol. 18, Issues 2-3 (1985), 133-136. (129 citations by Google Scholar). [https://doi.org/10.1016/0165-1765\(85\)90167-3](https://doi.org/10.1016/0165-1765(85)90167-3)
 11. "Estimating Dynamic Demand for Cigarettes Using Panel Data: The Effects of Bootlegging, Taxation and Advertising, Reconsidered," with Dan Levin, *The Review of Economics and Statistics*, Vol. 68, Issue 1 (February 1986), 148-155. (534 citations by Google Scholar). DOI: 10.2307/1924938, <https://www.jstor.org/stable/1924938>
 12. "Pooling Under Misspecification: Some Monte Carlo Evidence on the Kmenta and the Error Components Techniques," *Econometric Theory*, Vol. 2 (December 1986), 429-440. (39 citations by Google Scholar). <http://www.jstor.org/stable/3532320>
 13. "To Pool or Not to Pool: The Quality Bank Case," *The American Statistician*, Vol. 41 (May 1987), 150-152. <http://www.jstor.org/stable/2684234>
 14. "On Estimating from a More General Time-Series Cum Cross-Section Data Structure," *The American Economist*, Vol. 31 (Fall, 1987), 69-71. (13 citations by Google Scholar). <https://www.jstor.org/stable/25603737>
 15. "Quasi-Experimental Price Elasticities of Cigarette Demand and the Bootlegging Effect," with Rajeev K. Goel, *American Journal of Agricultural Economics*, Vol. 69 (November 1987), 750-754. (66 citations by Google Scholar). <http://www.jstor.org/stable/1242184>
 16. "A General Index of Technical Change," with James M. Griffin, *Journal of Political Economy*, Vol. 96, Issue 1 (February 1988), 20-41. (446 citations by Google Scholar). <http://www.jstor.org/stable/1830708>

17. "A Generalized Error Component Model with Heteroscedastic Disturbances," with James M. Griffin, *International Economic Review*, Vol. 29, Issue 4 (November 1988), 745-753. (123 citations by Google Scholar). <http://www.jstor.org/stable/2526831>
18. "On the Efficiency of Two-Stage and Three-Stage Least Squares Estimators," *Econometric Reviews*, Vol. 7, Issue 2 (1988-1989), 165-169. <https://doi.org/10.1080/07474938808800150>
19. "Further Monte Carlo Evidence on Seemingly Unrelated Regressions with Unequal Number of Observations," with Susan Garvin and Steven Kerman, *Annales D'Économie et de Statistique*, Vol. 14 (April-June 1989), 103-115. (21 citations by Google Scholar). <http://www.jstor.org/stable/20075741>
20. "Applications of a Necessary and Sufficient Condition for OLS to be BLUE," *Statistics and Probability Letters*, Vol. 8, Issue 5 (October 1989), 457-461. (25 citations by Google Scholar). [https://doi.org/10.1016/0167-7152\(89\)90027-8](https://doi.org/10.1016/0167-7152(89)90027-8)
21. "Alternative Models of Managerial Behavior: Empirical Tests for the Petroleum Industry," with James M. Griffin, *The Review of Economics and Statistics*, Vol. 71, Issue 4 (November 1989), 579-585. (15 citations by Google Scholar). <http://www.jstor.org/stable/1928099>
22. "A Lagrange Multiplier Test for the Error Components Model with Incomplete Panels," with Qi Li, *Econometric Reviews*, Vol. 9, Issue 1 (January 1990), 103-107. (170 citations by Google Scholar). <https://doi.org/10.1080/07474939008800180>
23. "The Error Components Regression Model: Conditional Relative Efficiency Comparisons," *Statistical Papers*, Vol. 31 (February 1990), 1-13. <https://doi.org/10.1007/BF02924669>
24. "Quasi-Experimental Price Elasticity of Liquor Demand in the United States: 1960-1983," with Rajeev Goel, *American Journal of Agricultural Economics*, Vol. 2, Issue 2 (May 1990), 451-454. (34 citations by Google Scholar). <http://www.jstor.org/stable/1242348>
25. "Recovering Precision from Seemingly Redundant Rounded Data," with Irwin L. Collier, Jr., *Journal of Forecasting*, Vol. 9, Issue 5 (October-December 1990), 457-465. <https://doi.org/10.1002/for.3980090505>
26. "On Efficient Estimation with Panel Data: An Empirical Comparison of Instrumental Variables Estimators," with Sophon Khanti-Akom, *Journal of Applied Econometrics*, Vol. 5, Issue 4 (September-December 1990), 401-406. (108 citations by Google Scholar). <http://www.jstor.org/stable/2096482>
27. "Intercountry Evidence on the Performance of the Simple Error Correction Mechanism Model of Consumption," with Manouchehr Mokhtari, *Empirical Economics*, Vol. 15 (December 1990), 303-314. <https://doi.org/10.1007/BF02307285>
28. "A Joint Test for Serial Correlation and Random Individual Effects," with Qi Li, *Statistics and Probability Letters*, Vol. 11, Issue 3 (March 1991), 277-280. (151 citations by Google Scholar). [https://doi.org/10.1016/0167-7152\(91\)90156-L](https://doi.org/10.1016/0167-7152(91)90156-L)
29. "A Transformation That Will Circumvent the Problem of Autocorrelation in an Error Component Model," with Qi Li, *Journal of Econometrics*, Vol. 48, Issue 3 (June 1991), 385-393. (155 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(91\)90070-T](https://doi.org/10.1016/0304-4076(91)90070-T)

30. "Editors' Introduction and Overview: Panel Data Analysis," with Baldev Raj, *Empirical Economics*, Vol. 17 (March 1992), 1-8. (13 citations by Google Scholar). <https://doi.org/10.1007/978-3-642-50127-2>
31. "A Survey of Recent Theoretical Developments in the Econometrics of Panel Data," with Baldev Raj, *Empirical Economics*, Vol. 17 (March 1992), 85-109. (81 citations by Google Scholar). <https://doi.org/10.1007/BF01192477>
32. "A Note on the Estimation of Simultaneous Equations with Error Components," with Qi Li, *Econometric Theory*, Vol. 8 (March 1992), 113-119. (74 citations by Google Scholar). <https://doi.org/10.1017/S0266466600010768>
33. "Monte Carlo Evidence on Panel Data Regressions with AR (1) Disturbances and an Arbitrary Variance on the Initial Observations," with Young-Jae Chang and Qi Li, *Journal of Econometrics*, Vol. 52, Issue 3 (June 1992), 371-380. (21 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(92\)90017-L](https://doi.org/10.1016/0304-4076(92)90017-L)
34. "A Monotonic Property for Iterative GLS in the Two-Way Random Effects Model," with Qi Li, *Journal of Econometrics*, Vol. 53, Issues 1-3 (July-September 1992), 45-51. (21 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(92\)90079-7](https://doi.org/10.1016/0304-4076(92)90079-7)
35. "Prediction in a One-Way Error Component Model with Serial Correlation," with Qi Li, *Journal of Forecasting*, Vol. 11 (September 1992), 561-567. (48 citations by Google Scholar). <https://doi.org/10.1002/for.3980110605>
36. "Monte Carlo Results on Several New and Existing Tests for the Error Component Model," with Young-Jae Chang and Qi Li, *Journal of Econometrics*, Vol. 54, Issues 1-3 (October-December 1992), 95-120. (94 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(92\)90101-V](https://doi.org/10.1016/0304-4076(92)90101-V)
37. "Cigarette Taxation: Raising Revenues and Reducing Consumption," with Dan Levin, *Structural Change and Economic Dynamics*, Vol. 3, Issue 2 (December 1992), 321-335. (168 citations by Google Scholar). [https://doi.org/10.1016/0954-349X\(92\)90010-4](https://doi.org/10.1016/0954-349X(92)90010-4)
38. "Useful Matrix Transformations for Panel Data Analysis: A Survey," *Statistical Papers*, Vol. 34 (November 1993), 281-301. (9 citations by Google Scholar). <https://doi.org/10.1007/BF02925550>
39. "A Simple Recursive Estimation Method for Regression Models with AR(p) Disturbances," with Qi Li, *Statistical Papers*, Vol.35 (May 1994), 93-100. <https://doi.org/10.1007/BF02926403>
40. "Incomplete Panels: A Comparative Study of Alternative Estimators for the Unbalanced One-Way Error Component Regression Model," with Young-Jae Chang, *Journal of Econometrics*, Vol. 62, Issue 2 (June 1994), 67-89. (294 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(94\)90017-5](https://doi.org/10.1016/0304-4076(94)90017-5)
41. "Estimating Error Component Models with General MA(q) Disturbances," with Qi Li, *Econometric Theory*, Vol. 10 (June 1994), 396-408. (26 citations by Google Scholar). <https://doi.org/10.1017/S026646660000846X>
42. "Consistency, Asymptotic Unbiasedness and Bounds on the Bias of s^2 in the Linear Regression Model with Error Component Disturbances," with Walter Krämer, *Statistical Papers*, Vol. 35 (November 1994), 323-328. (16 citations by Google Scholar). <https://doi.org/10.1007/BF02926424>
43. "Airline Deregulation: The Cost Pieces of the Puzzle," with James M. Griffin and Daniel Rich, *International Economic Review*, Vol. 36, Issue 1 (February 1995), 245-258. (190 citations by Google Scholar). <http://www.jstor.org/stable/2527435>

44. "Editor's Introduction: Panel Data," *Journal of Econometrics*, Vol. 68, Issue 1 (July 1995), 1-4. (52 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(95\)90009-8](https://doi.org/10.1016/0304-4076(95)90009-8)
45. "Testing AR(1) Against MA(1) Disturbances in an Error Component Model," with Qi Li, *Journal of Econometrics*, Vol. 68, Issue 1 (July 1995), 133-151. (295 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(94\)01646-H](https://doi.org/10.1016/0304-4076(94)01646-H)
46. "Public Capital Stock and State Productivity Growth: Further Evidence from an Error Components Model," with Nat Pinnoi, *Empirical Economics*, Vol. 20 (June 1995), 351-359. (229 citations by Google Scholar). <https://doi.org/10.1007/BF01205444>
47. "A Dynamic Demand Model for Liquor: The Case for Pooling," with James M. Griffin, *The Review of Economics and Statistics*, Vol. 77, Issue 3 (August 1995), 545-554. (102 citations by Google Scholar). <http://www.jstor.org/stable/2109914>
48. "The Measurement of Firm-Specific Indexes of Technical Change," with James M. Griffin and Daniel Rich, *The Review of Economics and Statistics*, Vol. 77, Issue 4 (November 1995), 654-663. (49 citations by Google Scholar). <http://www.jstor.org/stable/2109813>
49. "A General Condition for an Optimal Limiting Efficiency of OLS in the General Linear Regression Model," with Walter Krämer, *Economics Letters*, Vol. 50, Issue 1 (January 1996), 13-17. [https://doi.org/10.1016/0165-1765\(95\)00716-4](https://doi.org/10.1016/0165-1765(95)00716-4)
50. "Testing for Random Individual Effects Using Recursive Residuals," with Young-Jae Chang, *Econometric Reviews*, Vol. 15, Issue 3 (January 1996), 331-338. <https://doi.org/10.1080/07474939608800358>
51. "Testing for Random Individual and Time Effects Using a Gauss-Newton Regression," *Economics Letters*, Vol. 50, Issue 2 (February 1996), 189-192. (22 citations by Google Scholar). [https://doi.org/10.1016/0165-1765\(95\)00754-7](https://doi.org/10.1016/0165-1765(95)00754-7)
52. "A Nonparametric Test for Poolability Using Panel Data," with Javier Hidalgo and Qi Li, *Journal of Econometrics*, Vol. 75, Issue 2 (December 1996), 345-367. (101 citations by Google Scholar). [https://doi.org/10.1016/0304-4076\(95\)01779-8](https://doi.org/10.1016/0304-4076(95)01779-8)
53. "Pooled Estimators vs. Their Heterogeneous Counterparts in the Context of Dynamic Demand for Gasoline," with James M. Griffin, *Journal of Econometrics*, Vol. 77, Issue 2 (April 1997), 303-327. (405 citations by Google Scholar). [https://doi.org/10.1016/S0304-4076\(96\)01802-7](https://doi.org/10.1016/S0304-4076(96)01802-7)
54. "Testing for Linear and Loglinear Error Component Regression Against Box-Cox Alternatives," *Statistics and Probability Letters*, Vol. 33, Issue 1 (April 1997), 63-68. (11 citations by Google Scholar). [https://doi.org/10.1016/S0167-7152\(96\)00110-1](https://doi.org/10.1016/S0167-7152(96)00110-1)
55. "Monte Carlo Results on Pure and Pretest Estimators of An Error Component Model with Autocorrelated Disturbances," with Qi Li, *Annales D'Économie et de Statistique*, Vol. 48 (October-December 1997), 69-82. (15 citations by Google Scholar). <http://www.jstor.org/stable/20076097>
56. "Worldwide Institutional Rankings in Econometrics: 1989-1995," *Econometric Theory*, Vol. 14 (February 1998), 1-43. (28 citations by Google Scholar). <https://doi.org/10.1017/S0266466698141014>
57. "The German Wage Curve: Evidence from the IAB Employment Sample," with Uwe Blien, *Economics Letters*, Vol. 61, Issue 2 (November 1998), 135-142. (171 citations by Google Scholar). [https://doi.org/10.1016/S0165-1765\(98\)00166-9](https://doi.org/10.1016/S0165-1765(98)00166-9)

58. "Testing for Random Individual and Time Effects Using Unbalanced Panel Data," with Young-Jae Chang and Qi Li, *Advances in Econometrics*, Vol. 13 (1998), 1-20. (14 citations by Google Scholar). [https://doi.org/10.1108/S0731-9053\(1999\)0000013003](https://doi.org/10.1108/S0731-9053(1999)0000013003)
59. "Excess Capacity: A Permanent Characteristic of U.S. Airlines," with James M. Griffin and Sharada Vadali, *Journal of Applied Econometrics*, Vol. 13, Issue 6 (December 1998), 645-657. (35 citations by Google Scholar). <http://www.jstor.org/stable/223240>
60. "Double Length Regressions for Linear and Log-Linear Regressions With AR(1) Disturbances," *Statistical Papers*, Vol. 40 (April 1999), 199-209. (7 citations by Google Scholar). <https://doi.org/10.1007/BF02925518>
61. "Applied Econometrics Rankings: 1989-1995," *Journal of Applied Econometrics*, Vol. 14, Issue 4 (July-August 1999), 423-441. (38 citations by Google Scholar). [https://doi.org/10.1002/\(SICI\)1099-1255\(199907/08\)14:4<423::AID-JAE536>3.0.CO;2-K](https://doi.org/10.1002/(SICI)1099-1255(199907/08)14:4<423::AID-JAE536>3.0.CO;2-K)
62. "Unequally Spaced Panel Data Regressions with AR(1) Disturbances," with Ping X. Wu, *Econometric Theory*, Vol. 15 (December 1999), 814-823. (1066 citations by Google Scholar). <https://doi.org/10.1017/S0266466699156020>
63. "Specification Tests in Panel Data Models Using Artificial Regressions," *Annales D'Économie et de Statistique*, Vol. 55-56 (September-December 1999), 277-297. (25 citations by Google Scholar). <http://www.jstor.org/stable/20076199>
64. "To Pool or Not to Pool: Homogeneous versus Heterogeneous Estimators Applied to Cigarette Demand," with James M. Griffin and Weiwen Xiong, *The Review of Economics and Statistics*, Vol. 82 (February 2000), 117-126. (406 citations by Google Scholar). <http://www.jstor.org/stable/2646677>
65. "A Consistent Test for the Parametric Distribution of Regression Disturbances," with Qi Li, *Advances in Econometrics*, Vol. 14 (2000), 3-24.
66. "Simultaneous Equations with Incomplete Panels," with Young-Jae Chang, *Econometric Theory*, Vol. 16 (April 2000), 269-279. (96 citations by Google Scholar). <https://doi.org/10.1017/S0266466600162073>
67. "Nonstationary Panels, Cointegration in Panels and Dynamic Panels: A Survey," with Chihwa Kao, *Advances in Econometrics*, Vol. 15 (2000), 7-51. (881 citations by Google Scholar). [http://dx.doi.org/10.1016/S0731-9053\(00\)15002-9](http://dx.doi.org/10.1016/S0731-9053(00)15002-9)
68. "Editors Introduction: Nonstationary Panels, Cointegration in Panels and Dynamic Panels," with Thomas B. Fomby and R. Carter Hill, *Advances in Econometrics*, Vol. 15 (2000), 1-5. [http://dx.doi.org/10.1016/S0731-9053\(00\)15001-7](http://dx.doi.org/10.1016/S0731-9053(00)15001-7)
69. "Double-Length Regressions for the Box-Cox Difference Model with Heteroskedasticity or Autocorrelation," with Dong Li, *Economics Letters*, Vol. 69, Issue 1 (October 2000), 9-14. (7 citations by Google Scholar). [https://doi.org/10.1016/S0165-1765\(00\)00284-6](https://doi.org/10.1016/S0165-1765(00)00284-6)
70. "The East German Wage Curve: 1993-1998," with Uwe Blien and Katja Wolf, *Economics Letters*, Vol. 69, Issue 1 (October 2000), 25-31. (90 citations by Google Scholar). [https://doi.org/10.1016/S0165-1765\(00\)00288-3](https://doi.org/10.1016/S0165-1765(00)00288-3)

71. "The Unbalanced Nested Error Component Regression Model," with Seuck Heun Song and Byoung Cheol Jung, *Journal of Econometrics*, Vol. 101, Issue 2 (April 2001), 357-381. (159 citations by Google Scholar). [https://doi.org/10.1016/S0304-4076\(00\)00089-0](https://doi.org/10.1016/S0304-4076(00)00089-0)
72. "LM Tests for Functional Form and Spatial Error Correlation," with Dong Li, *International Regional Science Review*, Vol. 24, (April 2001), 194-225. (96 citations by Google Scholar).
73. "Double Length Artificial Regressions for Testing Spatial Dependence," with Dong Li, *Econometric Reviews*, Vol. 20, Issue 1 (February 2001), 31-40. (52 citations by Google Scholar). <https://doi.org/10.1081/ETC-100104078>
74. "The Econometrics of Rational Addiction: The Case of Cigarettes," with James M. Griffin, *Journal of Business and Economic Statistics*, Vol. 19, (October 2001), 449-454. (130 citations by Google Scholar). <http://www.jstor.org/stable/1392279>
75. "Estimation of Econometric Models with Nonparametrically Specified Risk Terms," with Qi Li, *Econometric Reviews*, Vol. 20, Issue 4 (October 2001), 445-460. <https://doi.org/10.1081/ETC-100106999>
76. "Simple LM Tests for the Unbalanced Nested Error Component Regression Model," with Seuck Heun Song and Byoung Cheol Jung, *Econometric Reviews*, Vol. 21, Issue 2 (January 2002), 167-187. (39 citations by Google Scholar). <https://doi.org/10.1081/ETC-120014347>
77. "LM Tests for the Unbalanced Nested Panel Data Regression Model with Serially Correlated Errors," with Seuck Heun Song and Byoung Cheol Jung, *Annales d'Économie et de Statistique*, Vol. 65 (January-March 2002), 219-268. (13 citations by Google Scholar). <http://www.jstor.org/stable/20076322>
78. "Series Estimation of Partially Linear Panel Data Models with Fixed Effects," with Dong Li, *Annals of Economics and Finance*, Vol. 3 (May 2002), 103-116. (248 citations by Google Scholar).
79. "On Instrumental Variable Estimation of Semiparametric Dynamic Panel Data Models," with Qi Li, *Economics Letters*, Vol. 76, Issue 1 (June 2002), 1-9. (53 citations by Google Scholar). [https://doi.org/10.1016/S0165-1765\(02\)00025-3](https://doi.org/10.1016/S0165-1765(02)00025-3)
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21. "Monte Carlo Results on Several New and Existing Tests for the Error Component Model," with Young-Jae Chang and Qi Li, presented at the *European Meetings of the Econometric Society* in Brussels, Belgium, August 1992.
22. "Testing AR(1) Against MA(1) Disturbances in an Error Component Model," with Qi Li, presented at the *fourth conference on Panel Data* in Budapest, Hungary, June, 1992. Also presented at the *Australian Meetings of the Econometric Society* at Monash University, Melbourne, Australia, July 1992, and at the *European Meetings of the Econometric Society* in Brussels, Belgium, August 1992.
23. "Incomplete Panels: A Comparative Study of Alternative Estimators for the Unbalanced One-Way Error Component Regression Model," with Young-Jae Chang, presented at the *Far Eastern Meeting of the Econometric Society* at Academia, Sinica, Taipei, Taiwan, June 1993. Also, at the *Australian Meetings of the Econometric Society* at the University of Sydney, Sydney, Australia, July, 1993 and at the *European Meetings of the Econometric Society* in Uppsala, Sweden, August, 1993.
24. "Estimating Error Component Models with General MA(q) Disturbances," with Qi Li, presented at the *European Meeting of the Econometric Society* in Uppsala, Sweden, August 1993.
25. "A Dynamic Demand Model for Liquor: The Case for Pooling," with James Griffin, presented at the *Winter Meeting of the Econometric Society* held in Boston, Massachusetts, January 1994.
26. "Monte Carlo Results on Pure and Pretest Estimators of an Error Component Model with Autocorrelated Disturbances," with Qi Li, presented at the *fifth conference on Panel Data* at the University of Paris, Val de Marne, June, 1994.
27. "Testing for Random Individual Effects Using Recursive Residuals," with Young-Jae Chang, presented at the *European Meetings of the Econometric Society* in Maastricht, Holland, August 1994.

28. "The Measurement of Firm-Specific Indexes of Technical Change," with James Griffin and Daniel Rich, presented at the *Winter Meetings of the Econometric Society* in Washington, D.C., January 1995.
29. "A Nonparametric Test for Poolability Using Panel Data," with Javier Hidalgo and Qi Li, presented at the *American Statistical Association Meetings* in Orlando, Florida, August 1995.
30. "Model Evaluation and Selection Criteria for Panel Data," panel discussion, *Southern Economic Association* meeting, New Orleans, Louisiana, November 1995.
31. "Pooled Estimators v.s. Their Heterogeneous Counterparts in the Context of Dynamic Demand for Gasoline," presented at *Camp Econometrics I*, The Guadalupe River Ranch, Boerne, Texas, February 1996. Also, at the *International Modelling Conference on the Asia-Pacific Economy* in Cairns, Australia, August 1996.
32. "Prediction from the Regression Model with One-Way Error Components," with Richard Baillie, presented at the *Sixth International Conference on Panel Data* at the University of Amsterdam, June 1996. Also, at the *European Meetings of the Econometric Society* in Istanbul, Turkey, August 1996.
33. "To Pool or Not to Pool: Homogeneous versus Heterogeneous Estimators Applied to Cigarette Demand," with James M. Griffin and Weiwen Xiong, presented at the *North American Summer Meeting of the Econometric Society* held at California Institute of Technology, Pasadena, California, June 1997. Also at *Camp Econometrics II*, Port Royal, Port Aransas, Texas, February 1997 and the *Eighth International Conference on Panel Data* at Göteborg University, Göteborg, Sweden, June, 1998.
34. "Specification Tests in Panel Data Models Using Artificial Regressions," presented at the *Seventh International Conference on Panel Data* at La Sorbonne, Paris, June 1997. Also at *Camp Econometrics III*, Lago Vista, Texas, February 1998 and the *Symposium on Computational Sciences* held at the Center for Advanced Mathematical Sciences, American University of Beirut, May 1998.
35. "Simultaneous Equations with Incomplete Panels," with Young-Jae Chang, presented at the *European Meetings of the Econometric Society* in Toulouse, France, August 1997.
36. "Unequally Spaced Panel Data Regressions with AR(1) Disturbances," with Ping X. Wu, presented at the *North American Summer Meeting of the Econometric Society* held at the Université du Québec à Montréal, Montréal, Canada, June 1998. Also, at the *Eighth International Conference on Panel Data* at Göteborg University, Göteborg, Sweden, June, 1998 and the *European Meetings of the Econometric Society* held at Humboldt University, Berlin, Germany, August, 1998.
37. "The German Wage Curve: Evidence from the IAB Employment Sample," with Uwe Blien, presented at the *Eighth International Conference on Panel Data* at Göteborg University, Göteborg, Sweden, June 1998. Also, at the *German Labor Market Conference* held at Humboldt University, Berlin, August 1998 and the *European Meetings of the Econometric Society* held at Humboldt University, Berlin, Germany, August, 1998.
38. "The Econometrics of Rational Addiction: The Case of Cigarettes," with James M. Griffin, presented at the *Ninth Lonestars Conference* at the University of Texas, Austin, September 1998. Also, at *Camp Econometrics IV*, Tanglewood Conference Center, Lake Texacoma, Pottsboro, Texas, February 1999, the *European Meetings of the Econometric Society* held at Santiago de Compostela, Spain, August, 1999, the *Winter Meetings of the Econometric Society* held in Boston, Massachusetts, January 2000 and the *Ninth European Workshop on Econometrics and Health Economics* held at the Tinbergen Institute, Amsterdam, September 2000.

39. "Double Length Artificial Regressions for Testing Spatial Dependence," with Dong Li, presented at the *Ninth Lonestars Conference* at the University of Texas, Austin, September 1998. Also, at *Camp Econometrics IV*, Tanglewood Conference Center, Lake Texacoma, Pottsboro, Texas, February 1999.
40. "Recent Developments in Panel Data," presented at the *ZEW summer workshop: Empirical Labour and Industrial Economics*, held at the Center for Economic Research-Mannheim (ZEW), June 1999.
41. "The Unbalanced Nested Error Component Regression Model," with Seuck Heun Song and Byoung Cheol Jung, presented at the *European Meetings of the Econometric Society* held at Santiago de Compostela, Spain, August 1999. Also, at *Camp Econometrics V*, April Sound Country Club, Lake Conroe, Texas, February 2000.
42. "The East German Wage Curve: 1993-1998," with Uwe Blien and Katja Wolf, presented at the *World Regional Science Meetings* in Lugano, Switzerland, May 2000 and the *Joint World Conference of the European Association of Labor Economists and the Society of Labor Economists (EALE/SOLE)* held at the Catholic University of the Sacred Heart in Milan, Italy, June 2000. Also, at the *Ninth International Conference on Panel Data* held at the University of Geneva, Switzerland, June 2000.
43. "Simple LM Tests for the Unbalanced Nested Error Component Regression Model," with Seuck Heun Song and Byoung Cheol Jung, presented at the *Ninth International Conference on Panel Data* at the University of Geneva, Switzerland, June 2000. Also, at the *Eighth World Congress of the Econometric Society* held at the University of Washington, Seattle, August 2000.
44. "LM Tests for Functional Form and Spatial Correlation," with Dong Li, presented at the *Eighth World Congress of the Econometric Society* held at the University of Washington, Seattle, August 2000.
45. "Testing Panel Data Regression Models with Spatial Error Correlation," with Seuck Heun Song and Won Koh, presented at the North American Summer Econometric Society Meetings held at the University of Maryland, June 2001 and the European Meetings of the Econometric Society held at the University of Lausanne, Switzerland, August 2001. Also, at the Tenth International Conference on Panel Data held at the Academy of Science in Berlin, Germany, July 2002 and the Sixth ERC/METU International Conference in Economics held at Middle East Technical University in Ankara, Turkey, September 2002.
46. "Rational Addiction to Alcohol: Panel Data Analysis of Liquor Consumption," with James Griffin presented at the *Tenth European Workshop on Econometrics and Health Economics* held at The Institute for Fiscal Studies, London, September 2001.
47. "Homogeneous, Heterogeneous or Shrinkage Estimators? Some Empirical Evidence from French Regional Gasoline Consumption," with James Griffin, Georges Bresson and Alain Pirotte presented at the North American Summer Econometric Society Meetings held at UCLA, June 2002. Also, at the *Tenth International Conference on Panel Data* held at the Academy of Science in Berlin, Germany, July 2002.
48. "Will Increased Wages Reduce Shortage of Nurses? A Panel Data Analysis of Nurses' Labor Supply," with Jan Erik Askildsen and Tor Helge Holmas presented at the *Tenth International Conference on Panel Data* held at the Academy of Science in Berlin, Germany, July 2002, the *Fourth European Conference on Health Economics* held in Paris, France, July 2002 and the European Meetings of the Econometric Society held in Venice, Italy, August 2002. Also, at the *Seventh ERC/METU International Conference in Economics* held at Middle East Technical University in Ankara, Turkey, September 2003.
49. "Skilled-Biased Technical Change in U.S. Manufacturing: A General Index Approach," with Daniel Rich presented at the Current Developments in Productivity and Efficiency Measurement Conference

at the University of Georgia, October 2002. Also, at the *North American Summer Meeting of the Econometric Society* held at the Kellogg School of Management, Northwestern University, Evanston, Illinois, June 2003.

50. "A Comparative Study of Pure and Pretest Estimators for A Possibly Misspecified Two-Way Error Component Model," with Georges Bresson and Alain Pirotte presented at the *Advances in Econometrics* Conference held at *Louisiana State University*, Baton Rouge, Louisiana, November 2002.
51. "A Panel Data Study of Physician's Labor Supply: The Case of Norway," with Espen Bratberg and Tor Helge Homas presented at the *European Society for Population Economics Conference* at New York University, June 2003.
52. "Fixed Effects, Random Effects or Hausman-Taylor? A Pretest Estimator," with Georges Bresson and Alain Pirotte presented at the *American Statistical Association meetings* in San Francisco, August 2003.
53. "Testing for Linear and Log-Linear Models Against Box-Cox Alternatives with Spatial Lag Dependence," with Dong Li presented at the *Advances in Econometrics* Conference held at *Louisiana State University*, Baton Rouge, Louisiana, November 2003. Also, at the *Southern Economic Association Meetings* in New Orleans, November 2004.
54. "Testing for Serial Correlation, Spatial Autocorrelation and Random Effects Using Panel Data," with Seuck Heun Song, Byoung Cheol Jung and Won Koh presented at the NSF/NBER Conference on Panel Data held at UCLA, April 1-2, 2004. Also, at the *Far Eastern Meeting of the Econometric Society* held in Seoul, Korea July 2004, the *Australian Meetings of the Econometric Society* held in Melbourne, Australia, July 2004 and the *Spatial Econometrics Workshop* in Kiel, Germany, April 2005.
55. "Swedish Liquor Consumption: New Evidence on Taste Change," with James M. Griffin presented at the *11th International Conference on Panel Data* held at Texas A&M University, College Station, Texas, June 4-6, 2004.
56. "Adaptive Estimation of Heteroskedastic Error Component Models," with Georges Bresson and Alain Pirotte, presented at the *11th International Conference on Panel Data* held at Texas A&M University, College Station, Texas, June 4-6, 2004. Also, the *59th European Meeting of the Econometric Society (ESEM)* in Madrid, August 20-24, 2004.
57. "Estimating Models of Complex FDI: Are there Third Country Effects?" with Peter Egger and Michael Pfaffermayr, presented at the *Spatial Econometrics Workshop* in Kiel, Germany, April 2005.
58. "Rational Alcohol Addiction: Evidence from the Russian Longitudinal Monitoring Survey," with Ingo Geishecker, presented at the conference on '*Economics of Addiction and of Health Inequality*' held at Universitat Pompeu Fabra, Barcelona, May 2005. Also, at the *14th European Workshop on Econometrics and Health Economics* held at the University College Dublin, Ireland, September 2005.
59. "Joint LM Test for Heteroskedasticity in a One-Way Error Component Model," with Georges Bresson and Alain Pirotte, presented at the *12th International Conference on Panel Data* held at CAMS in Copenhagen, Denmark, June 24-26, 2005.
60. "Panel Unit Root Tests and Spatial Dependence," with Georges Bresson and Alain Pirotte, presented at the *12th International Conference on Panel Data* held at CAMS in Copenhagen, Denmark, June 24-26, 2005. Also, at the *International Workshop on Spatial Econometrics and Statistics* held at

University LUISS “Guido Carli”, Rome, Italy, May 25-27, 2006, and the 61st *European Meeting of the Econometric Society* (ESEM) in Vienna, August 24-28, 2006.

61. “A Generalized Spatial Panel Data Model with Random Effects,” with Peter Egger and Michael Pfaffermayr, presented at *Camp Econometrics XI*, Huntsville, Texas, February 2006. The 13th *International Conference on Panel Data* held in Cambridge, England, July 7-9, 2006. Also, at the “Networks of Innovations and Spatial Analysis of Knowledge Diffusion Conference” held at the Jean-Monet University- Saint Etienne-France, September 14-15, 2006, and the 23rd *Annual Canadian Econometric Study Group*, Niagara Falls, October 20-21, 2006, and the 6th “*Spatial Econometrics and Statistics*” workshop held in Dijon, France, June 4-5, 2007.
62. “Estimating Regional Trade Agreement Effects on FDI in an Interdependent World,” with Peter Egger and Michael Pfaffermayr, presented at a conference entitled: “The Use of Econometrics in Informing Public Policy Makers,” held at the James A. Baker III Institute for public policy at Rice University, April 22-23, 2006. The *Canadian Economics Association meeting* in Montreal, May 25-28, 2006, and the International Workshop on Spatial Econometrics and Statistics held at University LUISS “Guido Carli”, Rome, Italy, May 25-27, 2006. Also, the 13th *International Conference on Panel Data* held in Cambridge, England, July 7-9, 2006.
63. “On the Use of Panel Data Methods to Estimate Rational Addiction Models,” presented as the *President’s lecture* at the *Scottish Economic Society Conference* in Perth, Scotland, April 24-26, 2006.
64. “Forecasting with Panel Data,” presented at the 8th *Deutsch Bundesbank Spring conference* on “New Developments in Economics Forecasting,” in Eltville, Germany, 5-6 May 2006. Also, as the *keynote address* for the 4th *Nordic Econometric meeting* held in Tartu, Estonia, 24-26 May 2007.
65. “Spatial Panels,” presented as the *keynote address* for the 4th *Nordic Econometric meeting* held at the University of Tartu, Estonia, 24-26 May 2007. Also, as the *keynote address* for the *First World Conference of the Spatial Econometrics Association* held at the University of Cambridge, England, July 11-14, 2007, and the 13th *Annual Conference of the African Econometric Society* held at the University of Pretoria, South Africa, July 9-11, 2008. The *Cowles summer conference* in econometrics entitled “Handling Dependence: Temporal, Cross-sectional, and Spatial,” held at Yale University, New Haven, June 22-23, 2009. The 15th *International Conference on Panel Data* held at the University of Bonn, Germany, July 3-5, 2009.
66. “A Monte Carlo Study for Pure and Pretest Estimators of a Panel Data Model with Spatially Autocorrelated Disturbances,” with Peter Egger and Michael Pfaffermayr, presented at the *North American Summer Meeting of the Econometric Society* held at Duke University, June 21-24, 2007. Also, at the 62nd *European Meeting of the Econometric Society* (ESEM) in Budapest, August 27-31, 2007.
67. “Phillips Curve or Wage Curve? Evidence from West Germany: 1980-2004,” with Uwe Blien and Katja Wolf, presented at the *XXI Annual Conference of the European Society for Population Economics* held at University of Illinois at Chicago, June 14-16, 2007. Also, the 22nd *Meeting of the European Economic Association* in Budapest August 27-31 2007, and the 47th *Congress of the European Regional Science Association* in Paris, August 29 to September 2, 2007.
68. “Financial Development, Openness and Institutions,” with Panicos Demetriades and Siong Hook Law, presented at the 22nd *Meeting of the European Economic Association* in Vienna, August 24-28, 2006. Also, at the IMF conference entitled “New Perspectives on Financial Globalization,” in Washington D.C., April 26-27, 2007.
69. “Forecasting with Spatial Panel Data,” with Georges Bresson and Alain Pirotte, presented at a conference in honor of Phoebus Dhrymes in Paphos, Cyprus, June 1-3, 2007. Also, at the 14th

International Conference on Panel Data at the Wang Yanan Institute for Studies in Economics (WISE), Xiamen University, China, July 16-18, 2007, and the *63rd European Meeting of the Econometric Society (ESEM)* held at the University of Bocconi in Milan, Italy, August 27-31, 2008.

70. "Asymptotic Properties of Estimators for the Linear Panel Regression Model with Individual effects and Serially Correlated Errors: The Case of Stationary and Non-Stationary Regressors and Residuals," with Chihwa Kao and Long Liu presented at the *17th Annual Meeting of the Midwest Econometrics Group* held at Washington University St. Louis, October 13-14, 2007.
71. "A Dynamic Spatial Panel Data Approach to the German Wage Curve," with Uwe Blien and Katja Wolf, presented at the *48th Congress of the European Regional Science Association*, 27 – 31 August 2008, Liverpool, UK. Also, at the *Second World Conference of the Spatial Econometrics Association*, New York, November 18-19, 2008, and the *Money Macro and Finance Workshop 2010* held at Cyprus University of Technology, September 1-3, 2010.
72. "Testing for Sphericity in Fixed Effects Panel Data Models," with Qu Feng and Chihwa Kao, presented at the *18th Annual Meeting of the Midwest Econometrics Group* held at the University of Kansas, Lawrence, KS, October 17-18, 2008. Also, at the *North American summer meeting of the econometric society* held at Boston University, June 4-7, 2009, and the *Far East and South Asia Meeting of the Econometric Society* held at the University of Tokyo, Tokyo, Japan, August 3-5, 2009.
73. "Health Care Expenditure and Income in the OECD Reconsidered: Evidence from Panel Data," with Francesco Moscone, presented at the *1st Health Econometrics Workshop* held at the University of Milan, Bicocca, Italy, December 4-6, 2008.
74. "Seemingly Unrelated Regressions with Spatial Error Components," with Alain Pirotte, presented at the *15th International Conference on Panel Data* at the University of Bonn, Germany, July 3-5, 2009. Also, at the *3rd World Conference of the Spatial Econometrics Association* at the University of Barcelona, Spain, July 8-10, 2009.
75. "Maximum Likelihood Estimation and Lagrange Multiplier Tests for Panel Seemingly Unrelated Regressions with Spatial Lag and Spatial Errors: An Application to Hedonic Housing Prices in Paris," with Georges Bresson, presented at the *Latin American Meetings of the Econometric Society (LAMES)*, held in Buenos Aires, Argentina, October 1-3, 2009. Also, at the first French econometrics conference celebrating Alain Monfort contribution to econometrics, Toulouse School of Economics, December 14-15, 2009, the *16th International Conference on Panel Data*, held at the University of Amsterdam, July 2-4, 2010, and the *2010 Barcelona Workshop on Regional and Urban Economics*, held at the University of Barcelona, September 9-10, 2010.
76. "Panel Data Inference Under Spatial Dependence," with Alain Pirotte, presented at the *4th World Conference of the Spatial Econometrics Association* in Chicago, June 9-12, 2010.
77. "The African Credit Trap," with Svetlana Andrianova, Panicos O. Demetriades and David Fielding, presented at the *Money Macro and Finance Workshop 2010* held at Cyprus University of Technology, September 1-3, 2010.
78. "Medical Technology and the Production of Health Care," with Francesco Moscone and Elisa Tosetti, presented at the *2nd Health Econometrics Workshop* held at the Università Cattolica, Roma, Italy, July 15-17, 2010.
79. "The Turkish Wage Curve: Evidence from the Household Labor Force Survey," with Yusuf Soner Baskaya and Timur Hulgagu, presented at the *17th International Conference on Panel Data* held at McGill University, Montreal, Canada, July 8-9, 2011.

80. "Random Effects, Fixed Effects and Hausman's Test for the Generalized Spatial Panel Data Regression Model," with Long Liu presented at the *17th International Conference on Panel Data* held at McGill University, Montreal, Canada, July 8-9, 2011. Also, at the *81st Southern Economics Association* meeting in Washington, D.C., November 19-21, 2011.
81. "Test of Hypotheses in Panel Data Models When the Regressor and Disturbances are Possibly Non-Stationary," with Chihwa Kao and Sanggon Na, presented at the *2011 Asian meeting of the Econometric Society* held at Korea University, Seoul, Seoul, Korea, August 11-13, 2011.
82. "A Lagrange Multiplier Test for Cross-sectional Dependence in a Fixed Effects Panel Data Model," with Qu Feng and Chihwa Kao, presented at the *2011 North American Summer Meeting of the Econometric Society* held at Washington University in St. Louis, June 9-12, 2011. Also, at the *17th International Conference on Panel Data* held at McGill University, Montreal, Canada, July 8-9, 2011.
83. "Standardized LM Tests for Spatial Error Dependence in Linear or Panel Regressions," with Zhenlin Yang, presented at the *2011 Asian meeting of the Econometric Society* held at Korea University, Seoul, Korea, August 11-13, 2011.
84. "Firm-level Productivity Spillovers in China's Chemical Industry: A Spatial Hausman-Taylor Approach," with Peter H. Egger and Michaela Kesina, presented at the *5th World Conference of the Spatial Econometrics Association* held in Toulouse, France, July 6-8, 2011. The *17th International Conference on Panel Data* held at McGill University, Montreal, Canada, July 8-9, 2011. The *Singapore Economic Review conference*, August 4-6, 2011. The "Conference on Cross-sectional Dependence in Panel Data Models," May 30th-31st, 2013 at Trinity College, University of Cambridge, United Kingdom. Also, at the 67th European Meeting of the Econometric Society in Gothenburg, August 26-30, 2013, and the 2014 Workshop on Advanced Econometrics, held at the University of Kansas, April 26, 2014.
85. "Estimating and Forecasting with a Dynamic Spatial Panel Data Model," with Bernard Fingleton and Alain Pirotte, presented at the *5th World Conference of the Spatial Econometrics Association* held in Toulouse, France, July 6-8, 2011.
86. "A Robust Hausman-Taylor Estimator," with Georges Bresson, presented at the 11th *Advances in Econometrics* Conference held at *Louisiana State University*, Baton Rouge, Louisiana, February 17-19, 2012. Also at the *18th International Conference on Panel Data* held at the Banque de France, Paris, France, July 5-6, 2012.
87. "Small Sample Properties and Pretest Estimation of a Spatial Hausman-Taylor Model," with Peter Egger and Michaela Kesina, presented at the 11th *Advances in Econometrics* Conference held at *Louisiana State University*, Baton Rouge, Louisiana, February 17-19, 2012.
88. "On the Estimation and Testing of Fixed Effects Panel Data Models with Weak Instruments," with Chihwa Kao and Long Liu, presented at the 30th Anniversary *Advances in Econometrics* Conference held at *Louisiana State University*, Baton Rouge, Louisiana, March 23-25, 2012.
89. "Prediction in an Unbalanced Nested Error Component Panel Data Model," with Alain Pirotte, presented at the 32nd International Symposium on Forecasting held in Boston, June 24-27, 2012. Also, at the *18th International Conference on Panel Data* held at the Banque de France, Paris, France, July 5-6, 2012.
90. "Spatial Lag Models with Nested Random Effects: An Instrumental Variable Procedure with an Application to English House Prices," with Bernard Fingleton and Alain Pirotte, presented at the 6th *World Conference of the Spatial Econometrics Association* held in Salvador, Brazil, July 11 to 13,

2012. Also, at the 19th *International Panel Data Conference* held at the Cass Business School, London, 4 - 5 July 2013.
91. "EC3SLS Estimator for a Simultaneous System of Spatial Autoregressive Equations with Random Effects," with Ying Deng, presented at New York Camp Econometrics VII held at the Otesaga Resort Hotel, Cooperstown, New York, April 2012. Also, the 18th *International Conference on Panel Data* held at the Banque de France, Paris, France, July 5-6, 2012.
 92. "Testing for Cross-Sectional Dependence in a Panel Factor Model Using the Wild Bootstrap F-test," with Chihwa Kao and Sanggon Na, presented at the 18th *International Conference on Panel Data* held at the Banque de France, Paris, France, July 5-6, 2012.
 93. "The Estimation and Testing of a Linear Regression with Near Unit Root in the Spatial Autoregressive Error Term," with Chihwa Kao and Long Liu, presented at the 82nd *annual conference of the Southern Economic Association*, New Orleans, Louisiana, November 16-18, 2012.
 94. "Welfare Reform and Children's Health," with Yin-Fang Yen, presented at *The 3rd Health Econometrics Workshop* held in Siena, Italy, December 4th-9th, 2012. Also, at New York Camp Econometrics VIII held at the Sagamore Resort Hotel, Lake George New York, April 2013.
 95. "Hedonic Housing Prices in Paris: An Unbalanced Spatial Lag Pseudo-Panel Model with Nested Random Effects," with Georges Bresson and Jean-Michel Etienne, presented at the *Conference on Cross-sectional Dependence in Panel Data Models* May 30th-31st, 2013 at Trinity College, University of Cambridge, United Kingdom. Also, at the 12th *International Workshop on Spatial Econometrics and Statistics* held in Orleans (France), June 17-19, 2013, and the 19th *International Panel Data Conference* held at the Cass Business School, London, July 4– 5, 2013.
 96. "Prediction in an Unbalanced Spatial Nested Error Components Panel Data Model," with Alain Pirotte, presented at the 33rd *International Symposium on Forecasting* held in Seoul, Korea from 23-26 June, 2013.
 97. "Estimation and Identification of Change Points in Panel Models with Nonstationary or Stationary Regressors and Error Term," with Chihwa Kao and Long Liu, presented at the 19th *International Panel Data Conference* held at the Cass Business School, London, July 4 – 5, 2013.
 98. "Sources of Productivity Spillovers: Panel Data Evidence from China," with Peter H. Egger and Michaela Kesina, presented at the 7th *World Conference of the Spatial Econometrics Association* held in Washington D.C., 10-12 July 2013. Also, at the *European Meeting of the Econometric Society (ESEM)* held in Toulouse, France, August 2014.
 99. "Estimation of Heterogeneous Panels with Structural Breaks," with Qu Feng and Chihwa Kao, presented at *The 2013 Asian Meeting of the Econometric Society (AMES2013)* held at the National University of Singapore, Singapore, August 2-4, 2013. Also at the *Singapore Economic Review Conference*, August 6-8, 2013, the *Tsinghua International Conference in Econometrics*, May 23-24, 2014, and the 20th *International Panel data Conference* held in Tokyo, Japan, July 9-10, 2014.
 100. "Test of Hypotheses in a Time Trend Panel Data Model with Serially Correlated Error Component Disturbances," with Chihwa Kao and Long Liu, presented at the *Advances in Econometrics Conference in Honor of Peter C. B. Phillips* held at SMU, Dallas, Texas, November 1-3, 2013. Also, at the 1st conference of the *International Association for Applied Econometrics (IAAE 2014)* hosted by Queen Mary University of London, June 26-28, 2014, and "Modelling Macroeconomic and Financial Time Series Conference," held at Loughborough University, United Kingdom, July 21-22, 2014.

101. "Hospital Treatment Rates and Spillover Effects: Does Ownership Matter?" with Yin-Fang Yen presented at *The 4th Health Econometrics Workshop* held at the University of Padova, Italy, July 19-20, 2014.
102. "Asymptotic Power of The Sphericity Test Under Weak and Strong Factors in a Fixed effects Panel Data Model," with Chihwa Kao and Fa Wang, presented at New York Camp Econometrics IX held at Watkins Glen Harbor Hotel, New York, April, 2014. Also, at the *Conference in Honor of Esfandiar Maasoumi* held at Emory University, Atlanta, Georgia, November 14-16, 2014.
103. "Contagious Exporting and Foreign Ownership: Evidence from Firms in Shanghai using a Bayesian Spatial Bivariate Probit Model," with Peter H. Egger and Michaela Kesina, presented at the 8th World Conference of the Spatial Econometrics Association held at ETH, Zurich, June 11-13, 2014. Also, at New York Camp Econometrics X held at the *Sagamore Resort Hotel*, Lake George, New York, April, 2015.
104. "Robust linear static panel data models using ε -contamination," with Georges Bresson, Anoop Chaturvedi and Guy Lacroix, presented at the 34th annual convention of the Indian Society for Probability and Statistics, November 30-December 3, 2014. Also, at the 21st *International Panel Data Conference* held at the Central European University, Budapest, Hungary, June 29-30, 2015.
105. "Bayesian Spatial Bivariate Panel Probit Estimation," with Peter H. Egger and Michaela Kesina, presented at the *Advances in Econometrics* Conference held at *Louisiana State University*, Baton Rouge, Louisiana, October 9-11, 2015.
106. "Identification and estimation of a large factor model with structural instability," with Chihwa Kao and Fa Wang, presented at New York Camp Econometrics X held at the *Sagamore Resort Hotel*, Lake George, New York, April 2015. Also presented at the 21st *International Panel Data Conference* held at the Central European University, Budapest, Hungary, June 29-30, 2015. And the 2015 Econometric Society World Congress held in Montreal from 17th to 21st August 2015.
106. "Change Point Estimation in Large Heterogeneous Panels," with Chihwa Kao and Fa Wang, presented at the 21st *International Panel Data Conference* held at the Central European University, Budapest, Hungary, June 29-30, 2015.
107. "Prediction in a Generalized Spatial Panel Data Model with Serial Correlation," with Long Liu, presented at the New York Camp Econometrics X held at the *Sagamore Resort Hotel*, Lake George, New York, April 2015. Also given as the keynote speech at *The 9th World Conference of the Spatial Econometrics Association* held at the University of Miami, Miami, Florida, May 21-22, 2015. And the 2015 Econometric Society World Congress held in Montreal from 17th to 21st August 2015.
108. "Cointegration of Matched Home Purchases and Rental Price Indexes - Evidence from Singapore," with Jing Li, presented at the ASSA meetings held in San Francisco, California, Jan 2-5, 2016.
109. "Do Spatial Wage Curves Differ Along the Formality-Informality Divide? Evidence from Turkey," with Yusuf Soner Başkaya and Selçuk Gül, presented at the European Association of Labour Economists Annual conference in Ghent, Belgium, September 15-17, 2016.
110. "Contagious Exporting and Foreign Ownership: Evidence from Firms in Shanghai using a Bayesian Spatial Bivariate Probit Model," with Peter H. Egger and Michaela Kesina, presented at the *The 11th World Conference of the Spatial Econometrics Association*, held at the School of Economics, Singapore Management University, June 13-15, 2017.
111. "Testing for Shifts in a Time Trend Panel Data Model with Serially Correlated Error Component Disturbances," with Chihwa Kao and Long Liu, presented at the 2017 North American Summer

Meetings of the Econometric Society, held at Washington University in St. Louis, June 15-18, 2017. Also at the 52nd Annual Conference of the Canadian Economics Association, held at McGill University, Montréal, Québec, June 1-3, 2018, and the North American Summer Meetings of the Econometric Society, held at the University of California, Davis, June 21-24, 2018.

112. "Network Effects on Labor Contracts of Internal Migrants in China - A Spatial Autoregressive Model," with Ying Deng and Xiangjun Ma, presented at the 4th Conference of the International Association for Applied Econometrics (IAAE 2017) hosted by Hokkaido University (Japan), June 26-29, 2017.
113. "Growth empirics: A Bayesian semiparametric model with random coefficients for a panel of OECD countries," with Georges Bresson and Jean-Michel Etienne, presented at the *International Conference on Panel Data*, 40th Anniversary, organized by the University of Macedonia, Thessaloniki, Greece, July 7-8, 2017. Also, at the *Advances in Econometrics* Conference in honor of Cheng Hsiao at *Louisiana State University*, Baton Rouge, Louisiana, October 26-28, 2018.
114. "Estimating and Testing High Dimensional Factor Models with Multiple Structural Changes," with Chihwa Kao and Fa Wang, presented at the *International Conference on Panel Data*, 40th Anniversary, organized by the University of Macedonia, Thessaloniki, Greece, July 7-8, 2017.
115. "Large Bayesian Estimation of Multivariate Panel Probits with Higher-order Interdependence and an Application to Firms' Global Market Participation in Guangdong," with Peter H. Egger and Michaela Kesina, presented at the *International Conference on Panel Data*, 40th Anniversary, organized by the University of Macedonia, Thessaloniki, Greece, July 7-8, 2017.
116. "A Time-Space Dynamic Spatial Panel Data Model with Spatial Moving Average Errors," with Bernard Fingleton and Alain Pirotte, presented at the *The 11th World Conference of the Spatial Econometrics Association*, held at the School of Economics, Singapore Management University, June 13-15, 2017. Also, at the *International Conference on Panel Data*, 40th Anniversary, organized by the University of Macedonia, Thessaloniki, Greece, July 7-8, 2017. The American Economic Association/ Allied Social Science Meetings in Atlanta, Georgia, January 4-6, 2019.
117. "Unobserved Demand Shocks and Housing Market Dynamics in a Model with Spatial Variation in the Elasticity of Supply," with Stuart Rosenthal and Shulin Shen, presented at the 12th meeting of the Urban Economics Association in conjunction with the 64th Annual North American Meetings of the Regional Science Association International, November 8-11, 2017.
118. "Diagnostic Tests for Homoskedasticity in Spatial Cross-Sectional or Panel Models," with Alain Pirotte and Zhenlin Yang, presented at the *The 12th World Conference of the Spatial Econometrics Association*, held at Webster Vienna Private University, June 11-12, 2018.
119. "Structural Changes in Heterogeneous Panels with Endogenous Regressors with an Application to Infrastructure Investment," with Qu Feng and Chihwa Kao, presented at the 24th International Conference on Panel Data, Sogang University, Seoul, Korea, June 19-20, 2018.
120. "Forty Years of Panel Data Forecasting," presented at the 24th International Conference on Panel Data, Sogang University, Seoul, Korea, June 19-20, 2018.
121. "The Effect of Education on Health: Evidence from the 1997 Compulsory Schooling Reform in Turkey," with Alfonso Flores-Lagunes and Haci M. Karatas, presented at the 6th Health Econometrics Workshop, University of Bergamo, Italy, July 16-18, 2018.
122. "Forecasting with Unbalanced Panel Data," with Long Liu, presented at the panel data forecasting conference held at the *Institute for New Thinking*, University of Southern California, April 19-20, 2019.

123. “Cities in a Pandemic: Evidence from China,” with Ying Deng, Jing Li and Zhenlin Yang, presented at the 10th European Meeting of the Urban Economics Association, virtual, April 29 - May 1, 2021.
124. “Estimating Spatial Wage Curves for Turkey,” with Yusuf Soner Başkaya, presented at the XV World Conference of Spatial Econometrics Association (SEA 2021), virtual, May 26-28, 2021. Also, presented at the 26th International Panel Data Conference, virtual, July 1, 2021.
125. “Bayesian Estimation of Multivariate Panel Probits with Higher-order Interdependence and an Application to Firms' Global Market Participation in Guangdong,” with Peter H. Egger and Michaela Kesina, presented at the 26th International Panel Data Conference, virtual, July 1, 2021.
126. “Robust dynamic panel data models using ε -contamination,” with Georges Bresson, Anoop Chaturvedi and Guy Lacroix, presented at the Econometric Society’s World Congress, August 17-20, 2020. Also, to be presented at the *Advances in Econometrics* Conference in honor of M. Hashem Pesaran at The Federal Reserve Bank, Dallas, Texas, April 23-24, 2022, cancelled.
127. “A Panel Data Model with Generalized Higher-order Network Effects,” with Sophia Ding and Peter H. Egger, to be presented at the *Advances in Econometrics* Conference in honor of M. Hashem Pesaran at The Federal Reserve Bank, Dallas, Texas, April 23-24, 2022, cancelled.

WORKING PAPERS

“A New International Database on Financial Fragility,” with Svetlana Andrianova & Thorsten Beck & Panicos Demetriades & David Fielding & Stephen G. Hall & Steven F. Koch & Robert Lensink & Johan Rewilak & Peter Rousseau. (18 citations by Google Scholar).
<http://ideas.repec.org/p/pre/wpaper/201557.html>

“Estimating Spatial Wage Curves for Turkey,” with Yusuf Soner Başkaya.

“Cities in a Pandemic: Evidence from China,” with Ying Deng, Jing Li and Zhenlin Yang

“Bayesian Estimation of Multivariate Panel Probits with Higher-order Interdependence and an Application to Firms' Global Market Participation in Guangdong,” with Peter H. Egger and Michaela Kesina.

“The Two-way Mundlak and Hausman and Taylor Estimators”

“Robust dynamic space-time panel data models using ε -contamination: An application to crop yields and climate change,” with Georges Bresson, Anoop Chaturvedi and Guy Lacroix.

REFEREE

Econometrica, Journal of Econometrics, Econometric Theory, Journal of Applied Econometrics, Econometric Reviews, International Economic Review, The Review of Economics and Statistics, The Review of Economic Studies, Journal of Political Economy, American Economic Review, Journal of the American Statistical Association, European Economic Review, Economic Journal, Economic Inquiry, Economics Letters, Journal of Development Economics, Canadian Journal of Economics, American Journal of Agricultural Economics, Empirical Economics, Scandinavian Journal of Economics, The American Statistician, Journal of Business and Economic Statistics, The Statistician, Journal of Economic Surveys, Journal of Industrial Economics, Journal of Structural Change and Economic Dynamics, Journal of Quantitative Economics, Journal of Productivity Analysis, Scandinavian Journal of Statistics, Statistics and Probability Letters, Journal of Multivariate Analysis, Statistica Neerlandica, Statistical Papers, Communications in Statistics-Theory and Methods, Bulletin of Economic Research, Japanese Economic Review, Health Economics, Journal of Health Economics, Papers in Regional Science, National Science

Foundation.

RESEARCH GRANTS

- Research Initiation Grant, University of Houston, 1980.
National Science Foundation, Grant SES81-06667, "An Experimental Study for Pooling Time-Series of Cross-Section Data in the Simultaneous Equations Model," 1981.
Advanced Research Program Grant, University of Houston, "Pooling Incomplete Time Series of Cross-Section Data Using Unbalanced ANOVA Designs," 1985.
Energy Laboratory, University of Houston, "A General Index of Technical Change: The Case of Steam-Electric Generation," 1986.
Texas Advanced Research Program, "Cigarette Taxation: Raising Revenues and Reducing Consumption," 1989.
Texas Advanced Research Program, "The Effects of Airline Deregulation on Costs and Technical Change," 1991.
Naomi Lewis Faculty Fellowship in Liberal Arts, Texas A&M University, 1992-1993.
Bush Program in Economics of Public Policy, "The Econometrics of Rational Addiction: The Case of Cigarettes," 1998.
Bush Program in Economics of Public Policy, "Empirical Tests of the Rational Addiction Model," 1999.
Texas Advanced Research Program, "Liquor Consumption: The Relative Impact of Different Social Control Devices," 1999.
Bush Program in Economics of Public Policy, "The Econometrics of Spatial Panel Data Models," 2000.
Bush Program in Economics of Public Policy, "Homogeneous, Heterogeneous or Shrinkage Estimators? Some Empirical Evidence from French Regional Gasoline Consumption," 2001.
European Union Center Grant, "Intra-and Extra Euro Area Import Demand -- Has the Euro Made a Difference?" 2004.
Economic & Social Research Council, (ESCRC), RES-000-22-2774, "The Political Economy of African Financial (Under)-Development," University of Leicester, with S. Andrianova, P. Demetriades (Principal Investigator), and D. Fielding, 2008.
Economic & Social Research Council, (ESCRC) and DFID funded Project entitled: "Politics, Growth and Finance," University of Leicester, with S. Andrianova (Principal Investigator), P. Demetriades, D. Fielding, et al., 2012.
Singapore Management University Internal Research Grant entitled: "Inferences for Spatial Dynamic Panel Data Models with Applications," with Zhenlin Yang (Principal Investigator), 2016.

GUEST LECTURES

Argentina: Central Bank of Argentina.

Australia: Monash University, University of Sydney, University of New England, Australian National University, University of Melbourne, University of New South Wales, ***Reserve Bank of Australia.***

Austria: Institute for Advanced Studies, Vienna, University of Innsbruck, University of Vienna.

Canada: University of Guelph, University of Laval, University of Montreal, Queen's University, Carleton University, University of British Columbia, Victoria University; University of Ottawa, University of Alberta, McGill University.

China: Hong Kong Science and Technology.

Colombia: Universidad del Rosario, Colombia, ***Central Bank of Colombia.***

Cyprus: Cyprus University of Technology, Girne American University.

Denmark: Aarhus University.

Estonia: University of Tartu.

France: Université Pathéon-Assas Paris II, INRA-Toulouse, Toulouse School of Economics, Groupement de Recherche En Économie Quantitative D'Aix-Marseille (GREQAM), University of Orleans.

Germany: Dörtnmund University, University of Hanover, Freie Universität - Berlin, Martin-Luther-Universität-Halle-Wittenberg, Johann Wolfgang Goethe-Universität Frankfurt am Main, Universität -

Hohenheim, Institute for Economic Research-Halle (IWH), Institute for Employment Research-Nürnberg (IAB), Center for Economic Research-Mannheim (ZEW), University of Regensburg, Universität Konstanz, Institute for Labor Research-Bonn (IZA), **European Central Bank** (ECB) Frankfurt, University of Mannheim, Ludwig-Maximilian University, Munich, (CESifo) Munich Society for the Promotion of Economic Research, (DIW) German Institute for Economic Research, Berlin;

Greece: Aristotle University; University of Macedonia.

Hungary: Central European University (Budapest);

Italy: Tor Vergata University-Rome, University of Bergamo, University of Roma “La Sapienza”; Università Cattolica-Roma, University of Padova. University of Palermo, University of Milan-Bicocca, University of Siena.

Korea: Seoul National University, Korea University, Ewha University, Sogang University.

Kuwait: Kuwait University.

Lebanon: American University of Beirut.

Mexico: Centro De Investigacion Y Docencia Economicas (CIDE);

Netherlands: University of Amsterdam, Tilburg University, University of Groningen, Utrecht University.

Norway: University of Bergen.

Portugal : University of Coimbra, **Banco de Portugal**, University of Minho.

Scotland : University of Stirling.

Singapore: Singapore Management University, Nanyang Technological University.

Spain: Institute for Prospective Technological Studies, Seville; Universitat Pompeu Fabra.

Barcelona Graduate School of Economics; Instituto de Estudios Fiscales, Madrid; Universidad Autonoma de Madrid.

Sweden: University of Göteborg.

Switzerland: University of Bern, University of St. Gallen, ETH, Zurich; University of Zurich, The Study Center Gerzensee, a foundation of the **Swiss National Bank**.

South Africa: University of Pretoria.

Turkey: Koc University, Middle East Technical University, Ataturk University, Istanbul Bilgi University, Pamukkale University, Central Bank of Turkey.

United Kingdom: University of Cambridge, University of Leicester, University of Manchester, University of Nottingham, Cass Business School, University of Leeds, Loughborough University.

United States:

American University, Arizona State University, University of Alabama, University of Arizona, California Institute of Technology, North Carolina State University, University of California-Berkeley, University of California-Riverside, University of California-San Diego, University of Chicago, University of Cincinnati, Cornell University, Emory University, Georgia State University, University of Georgia, University of Houston, Johns Hopkins University, University of Illinois at Urbana-Champaign, Indiana University, University of Iowa, University of Kansas, University of Kentucky, Louisiana State University, University of Maryland, University of Miami, University of Michigan, Michigan State University, Mississippi State University, New York University, University of North Carolina-Chapel Hill, Ohio State University, University of Oklahoma, University of Oregon, Pennsylvania State University, University of Pennsylvania, Rice University, University of Rochester, Southern Methodist University, University of Southern California, SUNY-Albany, Syracuse University, University of Tennessee, Texas A&M University, University of Texas at Austin, Virginia Polytechnic Institute and State University, West Virginia University, Inter-American Development Bank; International Monetary Fund (IMF).

ORGANIZED CONFERENCES

Organizer of the 1st and 6th *Texas Econometrics Camp*, Guadalupe River Ranch, Boerne, Texas, February 1996, and February 2001. <https://www.jstor.org/stable/3532795>

Organizer of the *11th International Conference on Panel Data*, College Station, Texas, June 2004.

Organizer of the following *New York Econometrics Camps*:

New York Camp Econometrics I held at the *Gideon Putnam Resort*, Saratoga Springs, New York, February 2006. *Keynote Speakers*: Peter Schmidt (Michigan State University) and William Greene (NYU-Stern).

New York Camp Econometrics II held at the *Gideon Putnam Resort*, Saratoga Springs, New York, March 2007. *Keynote Speakers*: Arthur Lewbel (Boston College).

New York Camp Econometrics III held at *La Tourelle Resort*, Ithaca, New York, April 2008. *Keynote Speakers*: Jean-Marie Dufour (McGill University) and Anil Bera (University of Illinois at Urbana-Champaign).

New York Camp Econometrics IV held at *Mirror Lake Inn*, Lake Placid, New York, April 2009. *Keynote Speaker*: Jerry Hausman (MIT).

New York Camp Econometrics V held at *Minnnowbrook Conference Center*, Blue Mountain Lake, New York, October 2010. *Keynote Speaker*: Cheng Hsiao (University of Southern California).

New York Camp Econometrics VI held at *Mirror Lake Inn*, Lake Placid, New York, April 2011. *Keynote Speakers*: Peter Schmidt (Michigan State University) and Peter H. Egger (ETH Zurich).

New York Camp Econometrics VII held at the *Otesaga Resort Hotel*, Cooperstown, New York, April 2012. *Keynote Speaker*: Donald W.K. Andrews (Yale University).

New York Camp Econometrics VIII held at the *Sagamore Resort Hotel*, Lake George, New York, April 2013. *Keynote Speaker*: Graham Elliot (University of California, San Diego).

New York Camp Econometrics IX held at *The Watkins Glen Harbor Hotel*, Watkins Glen, New York, April, 2014. *Keynote Speaker*: Jushan Bai, Columbia University.

New York Camp Econometrics X held at the *Sagamore Resort Hotel*, Lake George, New York, April 2015. *Keynote Speaker*: Essie Maasoumi (Emory University).

New York Camp Econometrics XI held at the *1000 Islands Harbor Hotel*, Clayton, New York, April 2016. *Keynote Speaker*: Kajal Lahiri (University at Albany, SUNY).

New York Camp Econometrics XII held at *Mirror Lake Inn*, Lake Placid, New York, April 2017. *Keynote Speaker*: Bruce E. Hansen (University of Wisconsin).

New York Camp Econometrics XIII held at the *Sagamore Resort Hotel*, Lake George, New York, April 2018. *Keynote Speaker*: James G. MacKinnon (Queen's University).

New York Camp Econometrics XIV held at *1000 Islands Harbor Hotel*, Clayton, New York, April 2019. *Keynote Speaker*: Elie Tamer (Harvard University).

New York Camp Econometrics XV, *Virtual*, April 2021. *Keynote Speaker*: Jeffrey M. Wooldridge (Michigan State University).

KEY NOTE SPEAKER

1. “*Triangle Econometrics Conference*,” sponsored by Duke University, University of North Carolina and North Carolina State University, Raleigh/Durham, December 2000.
2. “*Texas Camp Econometrics XI*,” Huntsville, Texas, February 2006.
3. *President’s lecture* for the *Scottish Economic Society Conference*, Perth, Scotland, April 24-26, 2006.
4. *The 4th Nordic Econometric meeting* held at the University of Tartu, Estonia, May 24-26, 2007.
5. *The 1st World Conference of the Spatial Econometrics Association* held at the University of Cambridge, England, July 11-14, 2007.
6. *The 13th Annual Conference of the African Econometric Society* held at the University of Pretoria, South Africa, July 9-11, 2008.
7. *The 1st Health Econometrics Workshop* held at the University of Milan, Bicocca, Italy, December 4-6, 2008.
8. *The 10th Econometrics and Statistics Symposium* held at Ataturk University, Turkey, May 27-29, 2009.
9. *A session in honor of Cheng Hsiao, the 15th International Conference on Panel Data* held at the University of Bonn, Germany, July 3-5, 2009.
10. *The EcoMod2010 International Conference on Economic Modeling* held in Istanbul, Turkey, July 7-10, 2010.
11. *The 2nd Health Econometrics Workshop* held at the Università Cattolica, Roma, Italy, July 15-17, 2010.

12. *Money Macro and Finance Workshop 2010* held at Cyprus University of Technology, September 1-3, 2010.
13. The 17th *International Conference on Panel Data* held at McGill University, Montreal, Canada, July 8-9, 2011.
14. *Singapore Economic Review* conference, Singapore, August 4-6, 2011.
15. The 3rd *Health Econometrics Workshop* held in Siena, Italy, December 4th-9th, 2012.
16. *A Conference on Cross-Sectional Dependence in Panel Data Models* held at Trinity College, Cambridge University, May 30-31, 2013.
17. The 12th *international workshop on spatial econometrics and statistics* held in Orleans, France, June 17-19, 2013.
18. The 40th *Anniversary Macro-Models International Conference* held in Warsaw, Poland, October 21-24, 2013.
19. *Distinguished Speaker Lecture*, Aarhus University, *CREATES*, Denmark, March 13, 2014. See the video of this lecture at: <http://creates.au.dk/podcast-archive/professor-badi-h-baltagi/>
20. The 4th *Health Econometrics Workshop* held at the University of Padova, Italy, July 19-20, 2014.
21. *Modelling Macroeconomic and Financial Time Series Conference*, held at Loughborough University, United Kingdom, July 21-22, 2014.
22. The 9th *World Conference of the Spatial Econometrics Association* held at the University of Miami, Miami, Florida, May 21-22, 2015.
23. The 2nd *International Conference on Applied Economics and Finance*, held at Girne American University, Girne, Cyprus, December 5-6, 2016.
24. The 11th *World Conference of the Spatial Econometrics Association*, held at the School of Economics, Singapore Management University, June 13-15, 2017.
25. Keynote Speaker, *24th International Conference on Panel Data*, Sogang University, Seoul, Korea, June 19-20, 2018. <http://ipdc.sogang.ac.kr/html/program-keynote.php>
26. The 6th *Health Econometrics Workshop*, held at the University of Bergamo, Italy, July 16-18, 2018.
27. Keynote Speaker for Texas Camp Econometrics XXV, February 2020, The Woodlands Resort, Texas.
28. Keynote Speaker for the *19th International Workshop on Spatial Econometrics and Statistics*, May 28-29, 2020 at IAE Nantes, France (cancelled due to covid 19).
29. Keynote Speaker at the *Health Econometrics Workshop 2020 (HEW2020)* July 13-17 Ispra, Italy, (cancelled due to covid 19).

SHORT COURSES

Argentina	<i>Central Bank of Argentina</i> (2009)
Australia	International Modeling Conference on the Asia-Pacific Economy, Cairns (1996)
Austria	Institute for Advanced Studies, Vienna (2001); University of Innsbruck (2002); University of Vienna (2008).
Canada	Centre for Monetary and Financial Economics, Carleton University (2011)
Colombia	Universidad del Rosario, Bogota (2003, 2011)
Cyprus	Money Macro and Finance 42 nd Annual Conference, Cyprus University of Technology (2010)
Denmark	Aarhus University, Center for Research in Econometric Analysis of Time Series, CREATES (2014)
France	University of Paris II, Pantheon (2000)
Germany	Institute for Economic Research (IWH)-Halle (1997); <i>European Central Bank</i> , Frankfurt (2001); University of Mannheim (2002); German Institute for Economic Research (DIW), Berlin (2004); Center for Economic Studies (CES-ifo) and University of Munich (2002);

- 2005; 2009)
- Greece** The Marie Curie Training Program in Applied Health Economics, Thessaloniki (2006).
University of Macedonia, Thessaloniki (2014).
- Italy** Centro Interuniversitario de Econometria (CIDE)-Bertinoro (1998; 2008); Tor Vergata
University-Rome (2002); University of Roma “La Sapienza” (2008-2011); Universita
Cattolica, Roma (2012-2019), University of Padova (2014), University of Bergamo (2017-
2019).
- Korea** Seoul National University (2002)
- Lebanon** American University of Beirut (1998-2000)
- Netherlands** Netherlands Network of Economics (NAKE), Utrecht University (2005)
- Portugal** University of Coimbra (2007), *Banco de Portugal* (2008), University of Minho (2018).
- Scotland** University of Stirling (2007)
- Singapore** Singapore Management University (2009; 2017)
- Spain** Institute for Prospective Technological Studies (2006) Seville; Universitat Pompeu Fabra
(2007); Barcelona Graduate School of Economics (2008-2019); Instituto de Estudios
Fiscales, Madrid (2009-2011); Universidad Autonoma de Madrid (2011, 2013).
- Switzerland** University of Zurich (2003); The *Study Center Gerzensee*, a foundation of the *Swiss
National Bank* (August 2014).
- Turkey** *Central Bank of Turkey* (2010)
- United Kingdom** University of Leicester (2008-2019); Cambridge (2013).
- United States** University of Arizona (1996); University of California-San Diego (2002); University of
Cincinnati (2004); *Inter-American Development Bank* (November 2005); *International
Monetary Fund* (IMF) (2004-2019).