

CURRICULUM VITAE

PAOLO POSTIGLIONE

Professor of Economic Statistics

“G. d’Annunzio” University of Chieti-Pescara
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EDUCATION

Laurea cum laude (with Hons) in Economic Statistics University “La Sapienza” of Rome (June 1993).

Advisor: G. Arbia

Thesis: “A method for the classification and segmentation of remote sensed image” (*in Italian*).

Ph.D. degree in Statistics, X Course, University “G. d’Annunzio” of Chieti – Pescara (July 1998)

Advisor: G. Arbia

Thesis: “Analysis of spatially distributed variables: models, estimation and applications” (*in Italian*).

OTHER COURSES

Barcelona Macroeconomics Summer School 2002 in Economic Growth (Prof. X. Sala-i-Martin, Prof. A. Ciccone), *Centre de Recerca en Economia Internacional, University “Pompeu Fabra” of Barcelona* (June 2002)

Summer School in Statistical Methodology, *Italian Statistical Society*, Varese (September 1995)

SAS Course, University “La Sapienza” of Rome (October 1989).

CURRENT POSITION

Full Professor of Economic Statistics (01/05/2017 - today)

“G. d’Annunzio” University of Chieti – Pescara

Main research interests: Spatial statistics and econometrics, spatial concentration, spatial composite indicators, regional economic convergence, models for spatial non-stationary data, agricultural statistics, spatial sampling.

PREVIOUS POSITIONS

Associate Professor of Economic Statistics (01/11/2010 – 30/04/2017).

“G. d’Annunzio” University of Chieti – Pescara

Assistant Professor of Economic Statistics (01/08/2001 – 31/10/2010)

“G. d’Annunzio” University of Chieti – Pescara

Statistical Officer at Ministry of Transports and Navigation in staff position of the Head of Human Resources (1996 - 2001)

Main assignments: Human Resources Statistics, Budget of Ministry for the Human Resources expenditure, organization, economic aspects of trade-union relationship, statistical methods for the graduation of executive responsibilities, Annual Account.

VISITING POSITIONS

Visiting researcher at Department of Geography, Regional Economics Applications Laboratory, University of Illinois at Urbana-Champaign, USA (fall 2005, spring 2007, fall 2007, fall 2011, fall 2013).

Visiting researcher at Regional Research Institute, West Virginia University, USA (spring 2011).

ACADEMIC LECTURES

Data Science for Economics (2018 -)

University “G. d’Annunzio” of Chieti – Pescara

Business Statistics (2012 -)

University “G. d’Annunzio” of Chieti – Pescara

Economic Statistics (2020 - 2024)

“Leonardo da Vinci” University

Statistics (2020 - 2022)

Catholic University of the Sacred Heart, Rome

Statistics for Enterprises (2012 - 2021)

University “G. d’Annunzio” of Chieti – Pescara

Statistics for law (2019 - 2021)

“LUISS Guido Carli” University

Industrial Statistics (2010 - 2012)

University “G. d’Annunzio” of Chieti – Pescara

Statistics (2001 - 2012)

University “G. d’Annunzio” of Chieti – Pescara

Economic Statistics (2003 - 2010)

University “G. d’Annunzio” of Chieti – Pescara

Environmental Accounting and Statistics (2001 - 2010)

University “G. d’Annunzio” of Chieti – Pescara

Environmental Accounting and Statistics (*advanced course*) (2005 - 2007)

University “G. d’Annunzio” of Chieti – Pescara

Statistics (*supplementary lectures*) (2004 - 2010)

“LUISS Guido Carli” University

Statistical Methods for Economic Analysis, PhD Course, “G. d’Annunzio” University of Chieti – Pescara, (from 2024)

Spatial Econometrics, PhD Course, Gran Sasso Science Institute (from 2022).

Spatial data analysis for economic data, PhD Course, “G. d’Annunzio” University of Chieti – Pescara, (January, 2021).

Spatial Econometrics, Course of Italian Statistical Society, Catholic University of Sacred Heart, Rome (March, 2015).

Spatial Approach to Regional Economic Convergence

Summer School of Erasmus Internet Programme, PhD Course, Aberystwyth University, Aberystwyth, UK (September, 2013).

Econometrics

PhD Course, University of San Marino (October, 2004).

PUBLICATIONS

a) Journal Articles

1. Mazzaferro S, Cartone A, **Postiglione P**, D'Isidoro A (2026). Assessing regional digitalization in Europe: A spatial composite index approach, *Socio-Economic Planning Sciences*, 105, 102485. ISSN: 0038-0121. DOI: 10.1016/j.seps.2026.102485.
2. Billè A, Benedetti R, **Postiglione P** (2025). Dynamic spatial regimes for spatial panel data. *Spatial Statistics*, 70, 100939. ISSN: 2211-6753. Elsevier. DOI: 10.1016/j.spasta.2025.100939.
3. Cartone A, D'Isidoro A, Panzera D, **Postiglione P** (2025). Spatial segregation, socio-economic disparities and spatial (in)justice in a region of the Mediterranean, *Population, Space and Place*, 31: e70042. ISSN:1544-8452. Wiley. DOI: 10.1002/psp.70042
4. Cartone A, Di Battista L, **Postiglione P** (2024). A new approach for measuring poverty or social exclusion reduction in European NUTS 2 regions. *Socio-Economic Planning Sciences* 93, 101902. Elsevier. ISSN: 0038-0121. DOI: 10.1016/j.seps.2024.101902.
5. **Postiglione P**, Cartone A, Andreano MS, Benedetti R (2023). Constrained optimization for addressing spatial heterogeneity in principal component analysis: an application to composite indicators. *Statistical Methods & Applications*, 32, 1539-1561. Springer. ISSN: 1618-2510. DOI:10.1007/s10260-023-00697-y.
6. Panzera D, **Postiglione P** (2022). The impact of regional inequality on economic growth: a spatial econometric approach. *Regional Studies*, 56:5, 687-702. Taylor & Francis. ISSN: 0034-3404. DOI: 10.1080/00343404.2021.1910228.
7. Panzera D, Cartone A, **Postiglione P** (2022). New evidence on measuring the geographical concentration of economic activities. *Papers in Regional Science*, 101,1: 59-79. Wiley. ISSN: 1056-8190. DOI: 10.1111/PIRS.12644.
8. Piras G, **Postiglione P** (2022). A deeper look at impacts in spatial Durbin model with sphet. *Geographical Analysis*. 54, 664–684, Wiley. ISSN: 0016-7363. DOI: 10.1111/gean.12318.
9. Cartone A, Panzera D, **Postiglione P** (2022). Regional economic disparities, spatial dependence, and proximity structures. *Regional Science Policy & Practice*, 14, 5: 1034-1050. Wiley. ISSN:1757-7802. DOI: 10.1111/RSP3.12482.
10. Cartone A, **Postiglione P**, Hewings GJD (2021). Does economic convergence hold? A spatial quantile analysis on European regions. *Economic Modelling*, 95:408-417. ISSN: 0264-9993 DOI:10.1016/j.econmod.2020.03.008.
11. **Postiglione P** (2021). New directions for regional analysis: Methods and applications. *Regional Science Policy & Practice*, 13, 3-5. Wiley. ISSN:1757-7802. DOI:10.1111/rsp3.12396.
12. Cartone A, **Postiglione P** (2021). Principal component analysis for geographical data: the role of spatial effects in the definition of composite indicators. *Spatial Economic Analysis*, 16, 2: 126-147. Taylor & Francis. ISSN: 1742-1772. DOI: 10.1080/17421772.2020.1775876.
13. Casolani N, Cartone A, **Postiglione P**, Liberatore L, (2020). Climate variability in agriculture and crop water requirement: Spatial analysis of Italian provinces. *Journal*

- of Cleaner Production. Elsevier. ISSN: 0959-6526 DOI: 10.1016/j.jclepro.2020.121331.
14. **Postiglione P**, Cartone A, Panzera D. (2020). Economic convergence in EU NUTS 3 regions: A spatial econometric perspective. *Sustainability*, 12, 6717. ISSN: 2071-1050 DOI:10.3390/su12176717.
 15. Benedetti R, Palma D, **Postiglione P** (2020). Modelling the impact of technological innovation on environmental efficiency: A spatial panel data approach. *Geographical Analysis*, 52: 231–253. Wiley. ISSN: 0016-7363. DOI:10.1111/gean.12198.
 16. Panzera D, **Postiglione P** (2020). Measuring the spatial dimension of regional inequality: an approach based on the Gini correlation measure. *Social Indicators Research*, 148: 379-394. Springer. ISSN: 0303-8300. DOI: 10.1007/s11205-019-02208-7.
 17. Benedetti R, Piersimoni F, **Postiglione P** (2017). Alternative and complementary approaches to spatially balanced samples. *Metron*, 75: 249-264. Springer. ISSN:0026-1424. DOI: 10.1007/s40300-017-0123-1.
 18. Cartone A, Casolani N, Liberatore L, **Postiglione P** (2017). Spatial analysis of grey water in Italian cereals crop production. *Land Use Policy*, 68: 97-106. Elsevier. DOI: 10.1016/j.landusepol.2017.06.024. ISSN: 0264-8377.
 19. Benedetti R, Piersimoni F, **Postiglione P** (2017). Spatially balanced sampling: a review and a reappraisal. *International Statistical Review*, 85, 3, 439–454. Wiley ISSN: 1751-5823. DOI:10.1111/insr.12216.
 20. Billè A, Benedetti R, **Postiglione P** (2017). A two-step approach to account for unobserved spatial heterogeneity. *Spatial Economic Analysis*, 12, 4: 452-471. Taylor & Francis. ISSN: 1742-1772. DOI: 10.1080/17421772.2017.1286373.
 21. **Postiglione P**, Andreano MS, Benedetti R (2017). Spatial clusters in EU productivity growth. *Growth and Change*, 48, 1: 40-60. Wiley. DOI: 10.1111/grow.12165. ISSN: 0017-4815.
 22. Andreano MS, Benedetti R, **Postiglione P** (2017). Spatial regimes in regional European growth: an iterated spatially weighted regression approach. *Quality & Quantity*, 51: 2665–2684. Springer. DOI: 10.1007/s11135-016-0415-1. ISSN: 0033-5177.
 23. Cartone A, **Postiglione P** (2016). Modelli spaziali di regressione quantilica per l'analisi della convergenza economica regionale. *Rivista di Economia e Statistica del Territorio*, 3: 28-48. F. Angeli. DOI: 10.3280/REST2016-003003. ISSN: 1971-0380.
 24. Cartone A, **Postiglione P** (2016). Le componenti principali pesate geograficamente per la definizione di indicatori compositi locali. *Rivista di Economia e Statistica del Territorio*, 1: 33-52. F. Angeli. ISSN: 1971-0380, DOI: 10.3280/REST2016-001002.
 25. Panzera D, Benedetti R, **Postiglione P** (2016). A Bayesian approach to parameter estimation in the presence of spatial missing data. *Spatial Economic Analysis*, 11, 2: 201-218 Taylor & Francis. ISSN: 1742-1772, DOI: 10.1080/17421772.2016.1102962.
 26. Panzera D, **Postiglione P** (2014). Economic growth in Italian NUTS 3 provinces. *The Annals of Regional Science*, 53: 273-293. Springer. ISSN: 0570-1864, DOI 10.1007/s00168-014-0628-y.
 27. **Postiglione P**, Andreano MS, Benedetti R (2013). Using constrained optimization for the identification of convergence clubs. *Computational Economics*, 42: 151-174, Springer. ISSN: 0927-7099, DOI: 10.1007/s10614-012-9325-z.
 28. Andreano MS, Laureti L, **Postiglione P** (2013). Economic growth in MENA countries: Is there convergence of per-capita GDPs?, *Journal of Policy Modeling*, 35: 669-683, Elsevier. ISSN: 0161-8938, DOI: 10.1016/j.jpolmod.2013.02.005.

29. Andreano MS, **Postiglione P** (2013). Forecasting aggregated Euro area inflation rate with space-time models. *QdS - Journal of Methodological and Applied Statistics*, 15: 219-234. Liguori editore. ISSN: 1594-3739.
30. **Postiglione P** (2012). Evaluating the effects of heteroscedasticity on the economic growth of EU regions. *Rivista di Economia e Statistica del Territorio*, 3: 59-77, F. Angeli. ISSN 1971-0380, DOI: 10.3280/REST2012-003004.
31. Piras G, **Postiglione P**, Aroca P (2012). Specialization, R&D and productivity growth:evidence from EU regions. *The Annals of Regional Science*, 49: 35–51, Springer. ISSN: 0570-1864, DOI: 10.1007/s00168-010-0424-2.
32. **Postiglione P**, Benedetti R, Lafratta G (2010). A regression tree algorithm for the identification of convergence clubs. *Computational Statistics & Data Analysis*, 54: 2776-2785, Elsevier. ISSN: 0167-9473, DOI:10.1016/j.csda.2009.04.006.
33. Andreano MS, Laureti L, **Postiglione P** (2009). Unemployment analysis in the Med area. *Megatrend Review, The International Review of Applied Economics*, 6: 229-245. ISSN 1820-4570.
34. **Postiglione P**, Hewings GJD (2008). Hierarchical spatial interaction among the Italian regions - A nonlinear relative dynamics approach. *Journal of Geographical Systems*, 10: 369-382, Springer. ISSN: 1435-5930, DOI 10.1007/s10109-008-0072-6.
35. **Postiglione P**, Piras G, Modica M (2007). Modelli spaziali per dati panel per lo studio della convergenza economica regionale. *Scritti di Statistica Economica n. 14*: 125-150, Liguori Editore. ISSN: 2038-4971.
36. Arbia G, **Postiglione P** (2006). Spatial approach to economic convergence: an empirical analysis of EU NUTS 2 regions. *Scritti di Statistica Economica n. 12*: 1-25, Liguori Editore. ISSN: 2038-4971.
37. Laureti L, **Postiglione P** (2005). The effects of capital inflows on the economic growth in the Med area. *Journal of Policy Modeling*, 27: 839–851, Elsevier. ISSN: 0161-8938, DOI:10.1016/j.jpolmod.2005.05.003.
38. Alfò M, **Postiglione P** (2002). Semiparametric modelling of spatial binary observations. *Statistical Modelling*, 2: 123-137, Arnold Publishers. ISSN: 1471-082X, DOI: 10.1191/1471082x02st023oa.

b) Books

39. **Postiglione P**, Benedetti R, Piersimoni F (Eds) (2022). *Spatial econometric methods in agricultural economics using R*. CRC Press, Taylor & Francis Group. ISBN: 978-1498766814, DOI: 10.1201/9780429155628.
40. Benedetti R, Piersimoni F, **Postiglione P** (2015). *Sampling spatial units for agricultural surveys*. *Advances in Spatial Science*, Springer, Heidelberg, Berlin. ISBN 978-3-662-46007-8.

c) Book Chapters

41. Cartone A, Piras G, **Postiglione P** (2025). A machine learning algorithm for the analysis of spatially distributed data. In: Pollice A, Mariani P (eds) *Methodological and Applied Statistics and Demography II*. SIS 2024. Italian Statistical Society Series on Advances in Statistics, pp 169-174. Springer, Cham. https://doi.org/10.1007/978-3-031-64350-7_30
42. Cartone A, Panzera D, **Postiglione P** (2024). The spatial dimension of economic inequality in Italy. In: *Conflict scenarios and transitions. Opportunities and risks for regions and territories*, Modica M, Piacentino D (Eds), pp. 35 – 53, *Scienze Regionali 64*, Associazione Italiana di Scienze Regionali, Franco Angeli. ISBN: 9788835166535.
43. **Postiglione P**, Benedetti R, Piersimoni F (2022). Basic concepts. In: *Spatial econometric methods in agricultural economics using R*, Postiglione P, Benedetti R,

- Piersimoni F (Eds), pp. 1-10, CRC Press, Taylor & Francis Group. ISBN: 978-1498766814, DOI: 10.1201/9780429155628.
44. **Postiglione P** (2022). Spatial panel regression models in agriculture. In: Spatial econometric methods in agricultural economics using R, Postiglione P, Benedetti R, Piersimoni F (Eds), pp. 254-273, CRC Press, Taylor & Francis Group. ISBN: 978-1498766814, DOI: 10.1201/9780429155628.
 45. Cartone A, **Postiglione P** (2022). Cross-sectional spatial regression models for measuring agricultural β -convergence. In: Spatial econometric methods in agricultural economics using R, Postiglione P, Benedetti R, Piersimoni F (Eds), pp. 234-253, CRC press, Taylor & Francis Group. ISBN: 978-1498766814, DOI: 10.1201/9780429155628.
 46. Andreano MS, Benedetti R, Piersimoni F, **Postiglione P**, Savio G (2019). Sampling and modelling issues using big data in now-casting. In: New statistical developments in data science, Petrucci A, Racioppi F, Verde R (Eds), vol. 288, pp. 179-189, Springer Nature Switzerland. ISBN: 978-303021157-8.
 47. Benedetti R, Piersimoni F, **Postiglione P** (2016). Advanced methods to design samples for land use/land cover surveys. In: Topics on methodological and applied statistical inference, Di Battista T, Moreno E, Racugno W (Eds), Springer, Heidelberg, Berlin. ISBN: 978-3-319-44093-4.
 48. Piersimoni F, **Postiglione P**, Benedetti R (2014). Spatial sampling for agricultural data. In: Contributions to sampling statistics, Mecatti F, Conti PL, Ranalli MG (Eds), Springer, Heidelberg, Berlin, pp. 179- 198. ISBN: 978-3-319-05319-6.
 49. Benedetti R, Piersimoni F, **Postiglione P** (2012). Statistics in agricultural production. In: Methods and applications of statistics in the social and behavioral sciences, Balakrishnan N (Ed), John Wiley & Sons, Hoboken, New Jersey, pp. 357-373. ISBN: 978-0-470-40507-9.
 50. **Postiglione P**, Benedetti R, Piersimoni F (2010). Spatial prediction of agricultural crop yield. In: Agricultural survey methods, Benedetti R, Bee M, Espa G, Piersimoni F (Eds), John Wiley & Sons, West Sussex, UK, pp. 369-386. ISBN: 978-0-470-74371-3.
 51. Alfò M, **Postiglione P** (2006). A spatial mixed model for sectorial labour market. In: Data analysis, classification and the forward search, Zani S, Cerioli A, Riani M, Vichi M (Eds), Springer, Heidelberg, Berlin, pp. 349-357. ISBN: 978-3-540-35977-7.
 52. Arbia G, **Postiglione P** (2006). Alternative non-normal specifications. Section In Spatial econometrics. Statistical foundations and application to regional convergence, Arbia (author), Springer, Heidelberg, Berlin, pp. 124-126. ISBN: 978-3-540-32304-4.
 53. Arbia G, **Postiglione P** (2004). La raccolta dei dati. In: Carlucci M, Arbia G, Castaldi L, Lovison G, Mendola D, Postiglione P (2004). L'informazione Statistica per le Politiche Ambientali: Stato e Prospettive, Rapporto di Ricerca, 04.01, Commissione per la Garanzia dell'Informazione Statistica, Presidenza del Consiglio dei Ministri, pp. 22-57.
 54. **Postiglione P** (2004). Indicatori ed indici statistici. In: Carlucci M, Arbia G, Castaldi L, Lovison G, Mendola D, Postiglione P (2004). L'informazione Statistica per le Politiche Ambientali: Stato e Prospettive, Rapporto di Ricerca, 04.01, Commissione per la Garanzia dell'Informazione Statistica, Presidenza del Consiglio dei Ministri, pp. 79-103.
 55. Alfò M, **Postiglione P** (2001). Spatial discriminant analysis using covariates information. In: Advances in classification and data analysis, Borra S, Rocci R, Vichi M, Schader M (Eds), Springer, Heidelberg, Berlin, pp. 307-314. ISBN: 3-540-41488-6.

56. Alfò M, **Postiglione P** (1999). Discriminant analysis using Markovian automodels. In: Classification and data Analysis. Theory and application, Vichi M, Opitz O, (Eds), Springer, Heidelberg, Berlin, pp. 73-80. ISBN: 978-3540656333.

d) Technical reports

57. Cartone A, Panzera D, **Postiglione P**, Viñuela A (2020). Deliverable 3.2 - Report on economic growth in EU territories. IMAJINE WP3 Territorial Inequalities and Economic Growth.
<http://imajine-project.eu/wp-content/uploads/2020/11/Deliverable-3.2-Report-on-Economic-Growth-in-EU-Territories.pdf>
58. Cartone A, Panzera D, **Postiglione P**, Artelaris P, Viñuela A (2020). Deliverable 3.3 - Report on economic growth and spatial inequalities. IMAJINE WP3 Territorial Inequalities and Economic Growth.
<http://imajine-project.eu/wp-content/uploads/2020/11/Deliverable-3.3-Report-on-Economic-Growth-and-Spatial-Inequalities.pdf>
59. Fernandez-Vazquez E, Plotnikova M, **Postiglione P**, Rubiera-Morollon F, Viñuela A (2019). Deliverable 2.1 - Review of official data. IMAJINE WP2 Analysis of Territorial Inequalities in Europe.
<http://imajine-project.eu/wp-content/uploads/2019/02/Deliverable-2.1-Review-of-Official-Data.pdf>
60. Fernandez-Vazquez E, Plotnikova M, **Postiglione P**, Rubiera-Morollon F, Viñuela A (2019). Deliverable 2.2 - Literature review on disaggregation methodologies. IMAJINE WP2 Analysis of Territorial Inequalities in Europe.
<http://imajine-project.eu/wp-content/uploads/2019/02/Deliverable-2.2-Literature-Review-on-Disaggregation-methodologies.pdf>
61. Fernandez-Vazquez E, Plotnikova M, **Postiglione P**, Rubiera-Morollon F, Viñuela A (2019). Deliverable 2.4 - Report on inequality indexes at local level. IMAJINE WP2 Analysis of Territorial Inequalities in Europe.
<http://imajine-project.eu/wp-content/uploads/2019/02/Deliverable-2.4-Report-on-Inequality-Indices-at-Local-Level.pdf>
62. Benedetti R, **Postiglione P**, Panzera D, Filipponi D (2014). Developing more efficient and accurate methods for the use of remote sensing in agricultural statistics. Technical Report Series GO-05-2014. Global Strategy, Improving Rural & Agricultural Statistics, FAO.
<https://www.fao.org/3/ca6425en/ca6425en.pdf>

e) Other publications

63. Vargiu L, Biagi B, Brandano MG, **Postiglione P** (2023). Research Infrastructures and Regional Growth: the case of Europe. WP CRENoS 2023/14. Arkadia Editore, Cagliari. ISBN: 978 88 68514 907.
64. Cartone A, D'Isidoro A, **Postiglione P** (2023). Spatial filtering techniques for the definition of spatial non-compensatory indices. Book of Abstracts. 16th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics (CMStatistics 2023). ECOSTA ECONOMETRICS AND STATISTICS. HTW Berlin, University of Applied Sciences, Germany 16–18 December 2023, ISBN 978-9925-7812-7-0.
65. Cartone A, Di Battista L, **Postiglione P** (2022). Spatial quantile regression for modelling the impact of digital transformation on European regional economic growth. Book of Abstracts. 15th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on

- Computational and Methodological Statistics (CMStatistics 2022). ECOSTA ECONOMETRICS AND STATISTICS, London (UK), 17-19 Dicembre, 2022. ISBN: 978-9925-7812-6-3.
66. Cartone A, Di Battista L, **Postiglione P** (2022). Regional economic growth and the effect of Information Communication Technology: What is beyond the expected value? International Conference on Regional Science, Conference Proceedings, pp. 957-962. 19-22 November 2022, Granada (Spain). ISBN: 978-84-09-44259-1.
 67. Cartone A, Panzera D, **Postiglione P** (2021). Regional inequality, spatial dependence, and proximity structures: An application to EU regions. International Conference on Regional Science, Conference Proceedings, 24-26 November 2021, Madrid (Spain). ISBN: 978-84-09-26537-4.
 68. Cartone A, Panzera P, **Postiglione P** (2019). A non-compensatory deprivation index at municipality level for Italy. In Reynolds L (eds) RSA Conference 2019: Pushing regions beyond their border (p. 25). ISBN: 978-1-897721-69-8.
 69. **Postiglione P**, Andreano MS, Benedetti R, Cartone A (2018). Spatial heterogeneity in principal component analysis: a study of deprivation index on Italian provinces. Book of Short Papers, 49th Meeting of the Italian Statistical Society (SIS), Antonino Abbruzzo A, Brentari E, Chiodi M, Piacentino D (eds), Pearson. ISBN: 9788891910233.
 70. Andreano MS, Benedetti R, **Postiglione P**, Savio G (2017). On the use of Google Trend data as covariates in nowcasting: Sampling and modeling issues. SIS 2017. Statistics and Data Science: new challenges, new generations. Proceedings of the Conference of the Italian Statistical Society (edited by Alessandra Petrucci and Rosanna Verde), 28–30 June 2017 Florence (Italy), Firenze University Press, pp. 53-57. ISBN: 978-88-6453-521-0.
 71. Andreano MS, Benedetti R, **Postiglione P** (2016). Forecasting with Mixed Data Sampling Models (MIDAS) and Google trends data: the case of car sales in Italy. SIS 2016 Proceedings, 48th Scientific Meeting of the Italian Statistical Society, Salerno June 8th - June 10th, 2016. ISBN: 9788861970618.
 72. Panzera D, **Postiglione P** (2015). Economic inequality, spatial scale, and spatial concentration. Statistics and Demography: the Legacy of Corrado Gini, Corrado Crocetta Editor, CLEUP, Treviso, September 2015. ISBN 9788 8678 74521.
 73. Benedetti R, Andreano MS, Piersimoni F, **Postiglione P** (2015). Advances in the use of remote sensing in land use/land cover surveys. Invited Paper Sessions. Proceedings of the 60th ISI World Statistics Congress – ISI2015, Rio de Janeiro, July, 26-31, 2015, pp. 267-272, ISBN: 978-90-73592-35-3. pp. 512-517, ISBN: 978-90-73592-35-3.
 74. Benedetti R, Andreano MS, Piersimoni F, **Postiglione P** (2015). MCMC selection of spatially and doubly balanced samples. Invited Paper Sessions. Proceedings of the 60th ISI World Statistics Congress – ISI2015, Rio de Janeiro, July, 26-31, 2015.
 75. Benedetti R, Piersimoni F, **Postiglione P** (2014). Spatially balanced samples for land use/land cover surveys. In: Proceedings of the 47th Scientific Meeting of Italian Statistical Society, Cabras S, Di Battista T, Racugno W (eds). 11-13 June, 2014, Cagliari. CUEC Cooperativa Universitaria Editrice Cagliariitana. ISBN: 978-88-8467-874-4.
 76. **Postiglione P**, Piras G (2012). Una rassegna del software per la stima di modelli di econometria spaziale. XXXIII Conferenza scientifica annuale AISRe, 13-15 September 2012, Roma.
 77. **Postiglione P** (2011). Discussion on "Il grado di interazione tra Mezzogiorno e Centro Nord: evidenze empiriche da un modello VAR multi-regionale. In: L'integrazione economica tra Mezzogiorno e il Centro Nord, Bronzini R, Luigi Cannari (eds). Seminari e Convegni Banca d'Italia, pp.43-45.

78. Panzera D, Benedetti R, **Postiglione P** (2011). A prediction method for spatial missing data. 58th Annual North American Meetings of the Regional Science Association International, 9-12 November 2011, Miami.
79. **Postiglione P** (2011). Heteroscedasticity in the analysis of regional economic convergence. XXXII Conferenza scientifica annuale AISRe, 15-17 September 2011, Turin.
80. **Postiglione P**, Benedetti R (2011). Spatial heterogeneity in the productivity growth of EU regions. Vth World Conference of the Spatial Econometrics Association, 6-8 July 2011, Toulouse.
81. Andreano MS, Benedetti R, **Postiglione P** (2010). Heterogeneity in the economic growth of European Regions: an adaptive geographically weighted regression approach. Working Papers Universitas Mercatorum, November, I. ISBN 978-88-905081-4-1.
82. **Postiglione P**, Andreano MS, Benedetti R (2009). Stochastic relaxation for the analysis of regional economic convergence. 3rd International Conference on Computational and Financial Econometrics (CFE'09), 29-31 October 2009, Limassol, Cipro.
83. Benedetti R, **Postiglione P**, Piersimoni F (2007). Spatial method for the forecast of agricultural data. Proceedings of Fourth International Conference on Agricultural Statistics, Pechino, 22-24 October 2007. ISBN: 978-7-900225-43-6.
84. **Postiglione P**, Hewings GJD (2006). Spatial hierarchical analysis of Italian regions. Discussion Papers REAL 06-T-11, University of Illinois at Urbana-Champaign.
85. Benedetti R, Catenaro R, **Postiglione P**, (2006). Local stationarity of spatial regression models. Conference on Spatial Data Methods for Environmental and Ecological Processes, Sessione Poster, Baia delle Zagare Hotel (FG), Italy, 2006.
86. Benedetti R, **Postiglione P**, Espa G (2006). Metodi statistici per la stima della copertura del suolo con dati a terra e da satellite. Atti del convegno "AGRI@STAT - Verso un nuovo sistema di statistiche agricole", pp. 15-26, Firenze 30-31 May 2005. ISBN: 88-901551-2-4.
87. Benedetti R, Lafratta G, **Postiglione P** (2005). A procedure to identify the presence of convergence clubs. 52nd Annual North American Meetings of the Regional Science Association International, 9-12 November 2005, Las Vegas.
88. Arbia G, Piras G, **Postiglione P** (2005). Club convergence and spatial panel data analysis for EU-NUTS2 regions. Workshop on "Knowledge and Regional Economic Development", Barcelona, June 2005.
89. Alfò M, **Postiglione P** (2005). The identification of industrial districts through multivariate mixed models. In: Classification and data analysis, Zani S, Cerioli A (Eds), Atti del Convegno CLADAG, Parma 6-8 June 2005, Monte Università Parma. ISBN: 9788878470668.
90. Benedetti R, **Postiglione P**, Piersimoni F (2005). Un metodo interpolativo per la diffusione dei dati statistici. Atti del convegno "Metodi d'Indagine e di Analisi per le Politiche Agricole", Pisa 21-22 ottobre 2004, pp. 51-64. ISBN:88-901551-1-6.
91. Benedetti R, **Postiglione P**, Espa G (2005). La rilevazione diretta di informazioni congiunturali sulle coltivazioni: situazione attuale e possibili sviluppi. Atti del convegno "Metodi d'Indagine e di Analisi per le Politiche Agricole", Pisa 21-22 ottobre 2004, pp. 293-306. ISBN:88-901551-1-6.
92. **Postiglione P**, Salvatore M, Arbia G (2002). The role of spatial dependence in regional convergence of per-Capita income. Atti della XLI Riunione Scientifica della Società Italiana di Statistica, 2: 107-110, CLEUP. ISBN: 88-7178-589-4.
93. Espa G, **Postiglione P** (1996). Segmentazione vincolata di immagini telerilevate. Atti della XXXVIII Riunione Scientifica della Società Italiana di Statistica, 2: 177 – 184, Maggioli Editore.

94. **Postiglione P** (1996). *Analisi di immagini telerilevate: una rassegna di metodi e tecniche*. Quaderni del Dipartimento di Metodi Quantitativi e Teoria Economica, Università degli Studi “G. d’Annunzio” di Chieti-Pescara, 1996, n. 2.

f) Teaching publications (in Italian)

95. Benedetti R, Espa G, **Postiglione P** (2005). *Appunti di statistica di base per le scienze economiche*. Drake University Press, Trento. ISBN: 88-88725-04-0.

96. Arbia G **Postiglione P** (1997). *Esercizi di statistica economica*. Quaderni del Dipartimento di Metodi Quantitativi e Teoria Economica, n. 1, 1997.

AWARDS

2023, Regional Studies Association Best Paper Award for the journal “Regional Studies” for the paper “*The impact of regional inequality on economic growth: a spatial econometric approach*” (jointly with Domenica Panzera).

2023, Most read article of 2021 in the journal Spatial Economic Analysis for the paper “*Principal component analysis for geographical data: the role of spatial effects in the definition of composite indicators*” (jointly with Alfredo Cartone).

2022, Regional Studies Association Best Paper Award for the journal “Spatial Economic Analysis for the paper “*Principal component analysis for geographical data: the role of spatial effects in the definition of composite indicators*” (jointly with Alfredo Cartone).

2022, Most read article of 2021 in the journal “Regional Studies” for the paper “*The impact of regional inequality on economic growth: a spatial econometric approach*” (jointly with Domenica Panzera).

SCIENTIFIC SOCIETY AFFILIATIONS

Councilor of Italian Association of Regional Science (AISRe)	(2025-....)
Italian Statistical Society	(1996 -)
Spatial Econometrics Association	(2006 -)
Italian Association of Regional Science (AISRe)	(2011 -)

RESEARCH PROJECTS

Principal Investigator for the Project “*Spatial Composite indicators and inequality Indices for measuring socio-economic Well-Being*” (SCI-WEB), Cascading Calls, GRINS – *Growing Resilient, INclusive and Sustainable*, Spoke 8, National Recovery and Resilience Plan (NRRP) NextGenerationEU. (€150000, dal 01/05/2024).

Principal investigator for University “G. d’Annunzio” of Chieti- Pescara for the Horizon 2020 Project “*Integrative Mechanisms for Addressing Spatial Justice and Territorial Inequalities in Europe*”, H2020-SC6-REV-INEQUAL-2016.

Leader of WP3 “*Territorial Inequalities and Economic Growth*”. Member of the *Steering Group* of the project. Starting date 01/01/2017, duration in months 66, Project number 726950 (€ 316986.25).

Member of ISTAT Research Group “*ASIA Anticipato*” for the formulation of a methodological proposal for the backcasting of time series of the structure of the population of firms from 2001, based on ATECO 2007 (2010-2012).

Member of Research Group of Commission for the Security of Statistical Information on: “Statistical information for the environmental policies: present and future” (2003 – 2004).

Member of G.R.A.S.P.A. (*Research Group for Statistical Applications to Environmental Problems*)), Local Unit of Pescara, for the following projects:

COFIN 2004 “*Treatment of complexity and uncertainty in the environmental studies*”

COFIN 2002 “*Statistics for the environmental decisions: identification, monitoring and evaluation of intervention*”

COFIN 2000 “*Statistics in the evaluation of environmental risk*”

SEMINARS AND CONFERENCE PRESENTATIONS

- *Making decision trees Spatial: Enhancing CART for geographical data, Invited Seminar, Department of Statistical Science “Paolo Fortunati”, University of Bologna (11/12/2025).*

- *A novel spatially constrained regression tree for the analysis of regional poverty in the European Union, 72nd Conference of North American Regional Science Council, Denver, USA (15/11/2025).*

- *Exploring spatial effects in well-being: A spatial composite indicator approach using the entropy weight method, XLVI Annual Scientific Conference of AISRe (Italian Association of Regional Sciences), University of Chieti-Pescara, Italia (11/09/2025).*

- *Integrating inequality indices and composite indicators: A spatial approach to analyzing territorial disparities and local well-Being in Italian provinces, Conferenza Spoke 8 “Social Sustainability” of the extended partnership project “GRInS – Growing Resilient, Inclusive and Sustainable”, Catania (19/09/2025)*

- *Spatial composite indicators for measuring regional Digital Economics and Society in Europe, XLV Annual Scientific Conference of AISRe (Italian Association of Regional Sciences), University of Turin, Italy (07/09/2024).*

- *A machine learning algorithm for the analysis of spatially distributed data, 52nd Conference of the Italian Statistical Society, University “Aldo Moro” of Bari, Italy. Invited talk (17/06/2024).*

- *A spatial CART algorithm: some preliminary results, Spatial Econometrics Association 2023 Conference, Novembre 2023, San Diego, California, (17/11/2023).*

- *Poverty convergence at regional level in the EU: spatial quantile evidence”, European Regional Science (ERSA) Conference, August 2023, University di Alicante, Spagna. Invited talk on: “Territorial Inequalities in Europe” (31/08/2023).*

- *A spatial quantile analysis for testing poverty convergence in the EU at NUTS 2 level, 17th EUREAL meeting, June 2023, IRPET, Florence, (23/06/2023).*

- *Spatial quantile regression for modelling the impact of digital transformation on European regional economic growth. 15th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics). London (UK), 17-19 December, 2022. (18/12/2022).*

- *Regional economic growth and the effect of Information Communication: Technology: what is beyond the expected value?, Regional Science Conference of the Spanish Regional Science Association (AECR), October 18/20 - 2022, University of Granada, Spain. Invited paper to the session “Catalysts and unintended consequences of innovation” (19/10/2022).*

- *Spatial composite indicators a non-compensatory approach, 16th EUREAL meeting, September 2022, University of Warsaw, Polonia. (07/09/2022).*

- *Spatial composite indicators of inequality: an application to Lazio, XLIII Scientific Annual Conference of AISRe, September 2022, Politecnico di Milano, Milano. Invited paper to the session “Wellbeing, income, and inequalities: a regional perspective”. (05/09/2022)*

- *A spatial analysis of residential segregation in an Adriatic region. IMAJINE Final Conference. 23 Maggio 2022, Polish Institute of Geography – Polish Academy of Science,*

Varsavia, Polonia (23/05/2022).

- *Do we have the correct data to tackle regional inequalities?* Policy Seminar, European Commission, (23/03/2022).

- *Regional inequality, spatial dependence, and proximity structures: application to EU regions*, Regional Science Conference of the Spanish Regional Science Association (AEER), November 24/26 - 2021, Autonomous University of Madrid, Spain. (26/11/2021)

- *The role of spatial proximity in the measurement of regional inequality*, XLII Annual Scientific Conference of AISRe (Italian Association of Regional Sciences), on-line conference, September 2021. Invited paper to the session “Wellbeing, Income, and Inequality: a regional perspective”. (10/09/2021)

- *Regional inequality, spatial dependence and proximity structures*, Invited paper for the Webinar of the Regional Science Association International (RSAI) “Design, Implementation and Evaluation of Territorial Inequalities Policies”, (29/01/2021).

- *Spatial quantile regression for regional economic convergence*, “ G. d’Annunzio” University of Chieti-Pescara, (24/06/2020).

- *Measuring socio-economic disparities at local level: a composite indicator for Italy* XL Annual Scientific Conference of AISRe (Italian Association of Regional Sciences), L’Aquila, 16-18 Settembre 2019, (18/09/2019).

- *Measuring regional concentration of economic activities: a spatial approach*, 16th EU-REAL Meeting, Pescara, September 3-4 2019 (03/09/2019).

- *Identifying agglomeration and location patterns of economic activities: a spatial inequality-based measure*, 59th ERSA Congress, August 27-30, 2019, Lyon (France), (29/08/2019)

- *On the measurement of spatial inequality*, 15th EU-REAL Meeting, Palermo, September 3-4, 2018, (03/09/2018).

- *Spatial heterogeneity in principal component analysis with an application for the case of Italy*, 15th EU-REAL Meeting, Palermo, September 3-4, 2018, (04/09/2018).

- *Investigating local spatial effects in composite indicators of deprivation: the case of Lazio*, 58th ERSA Congress, August 28-31, 2018, Cork (Ireland), (28/08/2018).

- *Spatial heterogeneity in principal component analysis: a study of deprivation index on Italian provinces*, 49th Scientific meeting of the Italian Statistical Society, Palermo, June 20-22, 2018 (20/06/2018).

- *Accounting for spatial heterogeneity in deprivation index: the case of Italy*, XXXVIII Annual Scientific Conference of AISRe (Italian Association of Regional Sciences), Cagliari, September 20-22, 2017, (21/09/2017).

- *Regional economic convergence in European regions: a spatial quantile regression approach*, 14th EU-REAL, University of Coimbra, Coimbra, September 4-5, 2017 (04/09/2017)

- *Identifying spatial regimes in economic models*, Workshop “Applications in Spatial Econometrics”, Keynote Lecture, KOF Swiss Economic Institute, ETH Zurich, December 14-16, 2016 (16/12/2016).

- *Spatial approach to principal component analysis*, 13th EU-REAL Meeting, Badajoz-Caceres, Spain, September 21-23, 2016 (23/09/2016).

- *Spatial approach to PCA for the definition of local composite indicators*, X World Conference Spatial Econometrics Association 2016, Rome, June 13-15, 2016 (14/06/2016).

- *Economic inequality, spatial scale, and spatial concentration*, SIS2015 Statistical Conference, Statistics and Demography: the Legacy of Corrado Gini Treviso - Ca' Foscari University of Venice, September 9, 2015 – September 11, 2015 (09/09/2015).

- *Spatial regimes in economic growth of European regions*, 12th EU-REAL Meeting “Regional and Urban Economic Modeling”, Madrid, August 31 – September 1, 2015 (30/08/2015).

- *Income inequality, growth and space: some empirical evidence*, VI Workshop in Honour of Geoffrey J.D. Hewings, Keynote Lecture, University of Santiago de Compostela (09/06/2015).
- *Income inequality, growth and space: evidences form Italian provinces*, 61st Annual Conference of Northern American Regional Sciences Council, Washington (13/11/2014).
- *Some issues on regional economic convergence*, V Workshop in Honor of Geoffrey J.D. Hewings: Opening New Research Lines in Regional Science, Oviedo (16/09/2014)
- *Multitype point process models for bank branches location*, VIIIth World Conference of the Spatial Econometrics Association, Zurich (12/06/2014).
- *Heterogeneity in firms location modeling*, 53rd Congress of the European Regional Science Association, Palermo (28/08/2013).
- *Economic growth in Italian NUTS 3 provinces*, 59th Annual Conference of Northern American Regional Sciences Council, Ottawa (09/11/2012).
- *Una rassegna del software per la stima di modelli di econometria spaziale*, XXXIII Annual Scientific Conference of AISRe (Italian Association of Regional Sciences), Roma, (13/09/2012).
- *A prediction method for spatial missing data*, 58th Annual Conference of Northern American Regional Sciences Council, Miami (11/11/2011).
- *Spatial effects in the analysis of economic growth*, REAL Seminar, University of Illinois at Urbana – Champaign (15/11/2011).
- *L'eteroschedasticità nell'analisi della convergenza economica regionale*, XXXII Scientific Annual Conference of AISRe Convegno AISRe, Torino, (16/09/2011).
- *Spatial heterogeneity in the productivity growth of EU regions*. Vth World Conference of the Spatial Econometrics Association, Toulouse (07/07/2011).
- *Stochastic Relaxation for the analysis of regional economic convergence*, 3rd International Conference on Computational and Financial Econometrics (CFE'09), Limassol, Cipro (31/10/2009).
- *Specialization, R&D and Productivity growth*, II World Conference of Spatial Econometrics Association, New York (19/11/2008).
- *A regression tree algorithm for the identification of convergence clubs*, International Workshop on Spatial Econometrics and Statistics, Rome (25/05/2006).
- *A spatial hierarchical analysis of Italians regions*, International Workshop on Spatial Econometrics and Statistics, Rome (26/05/2006).
- *A procedure to identify convergence clubs*, 52nd Annual Conference of Northern American Regional Sciences Council, Las Vegas (11/11/2005).
- *A methodology for the identification of industrial district*, Regional Economic Analysis Laboratory, Department of Geography, University of Illinois at Urbana-Champaign (05/12/2005).
- *Il ruolo della dipendenza spaziale nella convergenza regionale dei redditi pro-capite*, XLI Riunione Scientifica della Società Italiana di Statistica (07/06/2002).
- *A spatial discriminant analysis using covariates information*, Riunione Scientifica del Gruppo CLADAG, Roma (06/07/1999).
- *Analisi discriminante attraverso automodelli markoviani*, Dipartimento di Metodi Quantitativi e Teoria Economica, Università "G. d'Annunzio" di Chieti – Pescara (25/06/1997).
- *Metodi statistici per la previsione di siti archeologici*, Dipartimento di Metodi Quantitativi e Teoria Economica, Università "G. d'Annunzio" di Chieti – Pescara (26/06/1997)
- *Valori anomali e osservazioni influenti nell'analisi dei dati multidimensionali*, Dipartimento di Metodi Quantitativi e Teoria Economica, Università "G. d'Annunzio" di Chieti – Pescara (09/05/1996).
- *Campionamento di aree*, Dipartimento di Metodi Quantitativi e Teoria Economica, Università "G. d'Annunzio" di Chieti – Pescara (03/07/1996).

EDITORIAL SERVICES

Associate Editor of Statistical Methods & Applications (2017-2021)

Regional Editor of Regional Science Policy & Practice (2019-2020) for the special issue “*New directions in regional development and spatial inequalities*”.

Referee per Journal of Regional Science, Regional Studies, Socio-Economic Planning Sciences, Economic Modelling, Geographical Analysis, AStA Advances in Statistical Analysis, Environmetrics, Computational Economics, Spatial Economic Analysis, Papers in Regional Science, Network & Spatial Economics, International Statistical Review, Social Indicators Research, Empirical Economics, Statistical Methods & Applications, Quality and Quantity, Regional Science Policy & Practice, Canadian Journal of Regional Science, Growth and Change, Emerging Markets Finance and Trade, International Regional Science Review, Applied Economics, Applied Economic Analysis, Health Policy, Review of Public Economics, Journal of Spatial Econometrics, Empirica.

SELECTED CONFERENCE SERVICES

Member of Scientific Committee of:

XLIX International Conference on Regional Science, AECR, Pamplona, October, 15-17, 2025.

XLVI Annual Scientific Conference of Italian Regional Science Association AISRe, Pescara, September, 10-12, 2025.

XLVIII International Conference on Regional Science, AECR, Cuenca, October, 16-18, 2024.

XLVII International Conference on Regional Science, AECR, Granada, October, 19-21, 2022.

XLVI International Conference on Regional Science, AECR, Universidad Autónoma de Madrid, November 24- 26, 2021.

XXXVII Annual Scientific Conference of Italian Regional Science Association AISRe, Ancona, September 20-22, 2016.

X World Conference Spatial Econometrics Association 2016, Rome, June 13-15, 2016.

Member of Local Organizing Committee of:

16th European Union REAL Workshop, 3-4 Settembre 2019, University “G. d’Annunzio” of Chieti-Pescara, Pescara.

Statistics and the Assessment, Control and Scenarios of Risks. Applications to Food, Social and Health, Economic and Environmental Fields”, September 12-14, 2018, University “G. d’Annunzio” of Chieti-Pescara, Pescara.

X World Conference Spatial Econometrics Association 2016, Rome, June 13-15, 2016.

Intermediate Workshop of Italian Statistical Society, September 2009, University “G. d’Annunzio” of Chieti-Pescara, Pescara.

Health Econometrics Workshop, 4-6 Dicembre 2008, University of Milan Bicocca, Milan.

International Workshop on Spatial Econometrics and Statistics, 25-27 May 2006, Luiss, Roma.

Organization of sessions on Spatial Econometrics at:

XLVI Annual Scientific Conference of Italian Regional Science Association AISRe, Pescara, 10-12 Settembre 2025.

SIS 2024, 52nd Scientific Meeting of the Italian Statistical Society, Session: *Advances in spatial analysis of economic data*, 17-20 June, 2024.
XLIV Annual Scientific Conference of Italian Regional Science Association AISRe, Session: *Advances in spatial econometrics*, Naples, 6-8 September, 2023.
XXXVII Annual Scientific Conference of Italian Regional Science Association AISRe, Session: *Metodi statistici per l'analisi territoriale*, Ancona, 20-22 September, 2016
SIS 2013 Statistical Conference, Advances in latent variables - methods, models and applications, Session: *Advances in spatial econometrics*, Brescia, 19-21 June, 2013.

SCIENTIFIC COLLABORATIONS

FAO, *Global Strategy Research Plan*, International consultant for designing field tests for assessing methodological and operational solutions to gaps and issues on methods for using remote sensing for agricultural and rural statistics (November 2013-February 2014).

APAT, *Agency for Environmental Protection and Technical Services*, Research Project “Analysis of current methodologies for the construction of indicators: spatial aggregation and presentation” (June 2004 – June 2005).

Commissione per la Garanzia dell’Informazione Statistica, Italian Government Presidency of the Council of Ministers, Research Project “Statistical Information for environmental policies: state and future” (March 2003 – March 2004).

Member of the Board of the Doctoral Programme in Applied Sciences for Business Innovation, University “G. d’Annunzio” of Chieti – Pescara (from 2023).

Member of the Board of the Doctoral Programme in Business, Institutions and Markets, University “G. d’Annunzio” of Chieti – Pescara (2013 - 2023).

Member of the Board of the Doctoral Programme in Economics and Business, University “G. d’Annunzio” of Chieti – Pescara (2010 -2013).

Member of the Board of the Doctoral Programme in Economics of Enterprises and Financial of Intermediary, University “G. d’Annunzio” of Chieti – Pescara (2003 - 2010).

OTHER PROFESSIONAL EXPERIENCES

Sviluppo Cooperazione e Occupazione s.c.p.a. for the definition of a statistical survey on formative and professionals needs of the enterprises of Abruzzo (2003)

Abruzzo Lavoro for the monitoring of the efficacy of some rules for the incentive of the Abruzzo enterprises (2001-2002)

INFORMATICS

Apple MacOS, Microsoft Office MAC.

Microsoft Windows, Microsoft Office.

R, R Studio, SAS, SPSS, STATA, E-Views, Statgraphics, Matlab, GeoDa, GeoDa Space, GRASS.