

## Silvia Biffignandi

## WORK EXPERIENCE

- Present **Full professor in Statistics applied to Business and Economics**  
University of Bergamo, 2, via dei Caniana, 24127, Bergamo, BG, Italy, [www.unibg.it](http://www.unibg.it)
- 2007-Present **Director of CASI (Center for Statistical Analyses and Interviewing/Surveys)**  
University of Bergamo, 2, via dei Caniana, 24127, Bergamo, BG, Italy, [www.unibg.it](http://www.unibg.it)
- 2012-Present **Coordinator of the University Evaluation board**  
1995-2002 University of Bergamo, 2, via dei Caniana, 24127, Bergamo, BG, Italy, [www.unibg.it](http://www.unibg.it)
- A.Y. 2002/03-2008/09 **Head of the Dipartimento di Matematica, Statistica, Informatica e Applicazioni**  
A.Y.1990/91-1995/96 University of Bergamo, 2, via dei Caniana, 24127, Bergamo, BG, Italy, [www.unibg.it](http://www.unibg.it)

## PROJECTS

- International projects
- 2010-2013 Blue - Enterprise and Trade Statistics" VII-th Eu Program
- 2001-2003 International European project WebSm (Web survey methodology)
- 2001-2003 Pilot international project "European Distance Training system on Statistical Techniques for quality improvement" (EUDISTAT), Leonardo project
- 2011-current "WEBDATANET: web-based data-collection - methodological challenges, solutions and implementations." Network; job leader of Working Group 3 "Guidelines, codes, standards, implementation and dissemination"
- National projects
- 2010-2012 "Agri-food and Demographic Panel for Lombardy" (Panel Agro-Alimentare e Demografico Lombardo - PAADEL), Lombardy region project.
- 1-6/2013 I-TE Increase Technical Education Project: changing trend, Confindustria Bergamo project
- 4/2013-3/2014 Italy Project – Azione: Giovani in Ricerca 2013 "Web data collection for decision making"
- 6/2011-12/2011 Analysis on low-cost passengers and hotel demand in the tourism industry, Bergamo Province
- 1/2012-10/2012 Analysis on low-cost passengers and hotel demand in the tourism industry (second phase), Bergamo Province
- 2007-2008 Tertiary activities in Treviglio area: economic analysis and a survey
- 2010-2012 Intereg- Italy Swiss Project Vetta, Survey "Young people and the mountains"
- 1994-1995 Coordinator of the Commissione Istat per la Progettazione del Censimento Intermedio dell'Industria e dei Servizi (Commission for the 1996 Industrial Census) for the "Study of the long form questionnaire"

- MIUR (Research Ministry) projects of relevant National interest (40% projects):
- 2003 "Measurement and statistical Analysis of Spatial Specialization In the Italian Production System in the Knowledge based economy"
  - 2001 "The use of new strategies of data and statistical information for the study and government of economic systems" (also national scientific coordinator of the project, management of six units)
  - 1999 "Interpretative framework, methodologies and criteria for the quality in the local bodies of SISTAN"
  - 1997 "Definitions, classifications and methodologies for the use of microdata of administrative records and surveys for the economic analysis"
  - 1996 and 1995 "Statistical units and survey units: definitions, classifications and methods of analysis"
  - 1994 "Statistical system of enterprises: integration of administrative data and surveys"

**Job-related skills** Excellent knowledge in the area of statistics applied to business and economics, acquired in the professional context and during many years of expertizing in the economic statistics sector, official statistics and surveys, and evaluation and efficiency area (especially in the education sector). Some of them are listed below:

International level

1999-2002 Expert at Eurostat on projects on business statistics, enterprise group data feasibility, integrated statistical system, satellite accounting, business data

National level

2012-2013 Member elected of the Board of the Gruppo di Coordinamento (Metodologie per le indagini campionarie – Survey Sampling Group, S2G) of the Italian Statistical Society

2008-2010 Member Scientific Advisory board of Unioncamere (Rome) for the Survey Statistics on Labour Market

2003-2008 Member of the Scientific Committee of the Excelsior Labour Statistics Information System, Unioncamere, Labour Ministry project

2002-current Representative of the University Rector and statistical expert for Cilea (Lombardy consortium of universities) for the STELLA project on post-graduate employment survey and related studies.

1996 Expert of the Advisory Committee on Statistics of Italian Prime Ministry Cabinet (Commissione di Garanzia per l'Informazione Statistica) for the Group on "Statistical System of Businesses"

Since 2009 Fellow of the Permanent Group of the Italian Statistical Society on Official Statistic

Since 2006 Fellow of the Permanent Group of the Italian Statistical Society on Survey Methodology

Since 1997 Expert fellow in the ISTAT (National Institute) Working Group "Utilizzo di dati amministrativi a fini statistici per la produzione di statistiche strutturali sui risultati economici delle imprese" ("Use of administrative data for statistical purposes in the production of the structural statistics on the economic performance of businesses")

1993-1996 Fellow expert of the Scientific Group of the Italian Statistical Society on "Statistical System of Businesses: surveys and databases integration"

1983-1989 Fellow expert of the Scientific Group of the Italian Statistical Society on "Time Series Analysis"

**Some research topics**

- Survey and Web surveys; web data collection
- Statistical integrated system of businesses and administrative databases, business register; questionnaire for census;
- Satellite accounting
- Local information systems;
- Business birth and death; small firms behaviour;
- Enterprise groups analysis;
- Distribution and trade sector analyses;
- Statistical analysis of the international trade and of the industrial system;
- New methodological results on shift-share analysis (proposal of new components, properties, methodology for synthesizing results and of economic typologies of development); territorial and sectoral economic analyses
- Microeconomic analysis and efficiency evaluation
- Time series analysis and forecasting

Member of the Scientific Committee of International Conferences

NTTS13 (New Techniques and Technologies for Statistics), Eurostat Conference, Bruxelles, March 2013

ITACOSM2013 (Italian Conference on Survey Methodology), Milan, June 2013

Participation to conferences as  
Invited speaker or discussant

GOR (German Online Research) 2013 Conference  
 Italian Scientific Society bi-annual Conference, Rome, June 2012  
 ISM12 (Internet Survey Methodology 2012), Ljubljana, November 2012  
 NTTTS11 (New Techniques and Technologies for Statistics), Eurostat Conference, Bruxelles, February 2011  
 ISM09 (Internet Survey Methodology 2009) organizer and scientific committee, Bergamo, September 2009  
 NTTTS09 (New Techniques and Technologies for Statistics), Eurostat Conference, Bruxelles, February, 2009  
 ISM07 (Internet Survey Methodology workshop 2007) scientific committee, Lillehammer, Norway, September 2007  
 SAE (Small area estimation – Conference), ISI Conference Satellite Meeting, Pisa, September, 2007  
 ICES-II (International Conference on Establishment Surveys-II) Buffalo, June 2000  
 CAED97 (Conference on Analysis of Economic Data), organizer and scientific committee, Bergamo, December 1997 (Conference in collaboration with Istat, Eurostat)  
 CAED96 (Conference on Analysis of Economic Data), Helsinki , June 1996 (Conference in collaboration with Statistics Finland, Eurostat)  
 ICES-I (International Conference on Establishment Surveys), Buffalo (USA), June 1993 organizer of the session on "Frame and sampling approaches for business surveys" and paper on "Administrative registers and national surveys"  
 Conference "Verso un sistema statistico integrato delle imprese in Europa" ("Towards a statistical integrated system in Europe"), October 1993, Bergamo; collaboration with Istat, Unioncamere and Eurostat (organizer and scientific committee)  
 Discussant at the 8th Scientific Meeting of the Classification and Data Analysis Group of the Italian Statistical Society (CLADAG), Pavia (Italy), 7-9 September 2011  
 Discussant at the Italian Conference on Survey Methodology (ITACOSM), Pisa (Italy), 27-29 June 2011  
 Invited presentation on "Modelling non sampling and participation in Web Surveys" at the Italian Statistical Society Conference, 2010  
 Conference of the Italian Statistical Society, "Statistical Analysis for the Analysis of Large Data-Sets", invited presentation on Web surveys: methodological problems and research perspectives, September 2009. ISBN 978 88 6129 566 7  
 ITACOSM09 (First Italian Conference on Survey Methodology), invited presentation on Imperfect frames and new data collection techniques, June 2009  
 Beyond GDP Conference, as participant, European Parliament, Bruxelles, 19-20 November, 2007  
 Discussant of the "OCDE tourism satellite account" and author of the paper on "Tourism satellite account" at the International Conference of the IAOS (International Association of Official Statistics)", The Hague, may 26-28, 1999  
 Discussant of the specialized session on "Tools for the diffusion of statistical information", Conference "Towards the Censuses of the year 2000" of the Italian Statistical Society, Udine, 1999  
 Discussant for the invited session on "The evaluation of the performance of public services" at the Conference of the Italian Statistical Society, Sorrento, 1998  
 Plenary session invited speaker on "State of art and perspectives of the statistical analysis of businesses: Users, problems and methods", Conference "Statistical Information on Businesses" of the Italian Statistical Society, Turin, 1997  
 Invited speaker on "Databases integration and statistical enterprise system" at the XXXVII Italian Statistical Society Conference, San Remo, 1994

Participation in Workshops on  
Business Statistics and Panels

Workshop on Longitudinal research in Internet Panels, Mannheim 23-24 May 2013, presentation entitled "Participation in panels: probability panels and experimental panels in the PAADEL project"  
 BLUE-ETS Workshop on Response Burden and Motivation Research, Heerlen, The Netherland, 21-24 March 2011  
 Fourth International Workshop on Business Data Collection Methodology (BDCM 2011), Neuchatel, Swiss, September 2011  
 Third International Workshop on Business Data Collection Methodology (BDCM 2010), Destatis, Germany Wiesbaden, 28-30 April 2010  
 First Working group meeting on Design and Test of e-Questionnaires with Eurostat Regulations, Statistics Denmark, 25-26. February 2010  
 Second International Workshop on Business Data Collection Methodology (BDCM 2008), Statistics Canada, Ottawa, 22-24 October 2008

Publications

- Books**
- Biffignandi S. (editor), *Il panel agro-alimentare e demografico lombardo (PAADEL), Un'infrastruttura di monitoraggio dell'innovazione nella produzione e nei consumi del settore agroalimentare*, FrancoAngeli, Milano, 2012.
- Biffignandi S., Chiesa F., *Il comparto alimentare e beverage. Produzione, consumo, packaging e macchinari*, FrancoAngeli, Milano, 2012.
- Biffignandi S., Bethlehem J., *Handbook of Web Surveys*, Wiley, Hoboken, United States, 2012, ISBN 978-0-470-60356-7
- Biffignandi S., Toninelli D., *Strumenti per la qualità e il controllo statistico in azienda* (second edition), FrancoAngeli, Milano, 2011, ISBN 9788856837636
- Biffignandi S., Gozzi G., *Qualità e informazione statistico economica territoriale: aspetti del processo di formazione dei dati e delle metodologie di analisi*, FrancoAngeli, Milano, 2003, ISBN: 9788846445841
- Biffignandi S. (editor), *Micro and Macrodata of Firms, Statistical Analyses and International Comparison*, Physica Verlag, 1999.
- Biffignandi S., Martini M. (editors), *Il registro statistico europeo delle imprese in Europa. Esperienze e metodi per la sua costruzione in Italia*, (European business register in Europe. Experiences and methods for its construction in Italy), FrancoAngeli, Milano, 1995.
- Biffignandi S., *Aspetti metodologici e interpretativi dell'analisi shift-share*, (Methods and interpretation of the shift-share analysis), Cedam, Padova, 1993.
- Biffignandi S., *Il sistema industriale della Lombardia*, (Industrial system in Lombardy), Quaderni de L'Industria, Il Mulino, Bologna, 1987.
- Biffignandi S., *Money, Monetary Base and Inflation in Italy: A Study based on Time Series Analysis*, Collana dell'Istituto di Studi Politico-Economici, Giuffrè, 1983.
- Some papers**
- Bianchi A., Biffignandi, S., The Paadel Panel: a Probability-based Panel for Consumer Studies, to appear in *Italian Journal of Applied Statistics*, 2014
- Bianchi A., Biffignandi, S., Decomposing employment change in a crisis period in Italy: a multifactor partitioning approach, to appear in *Italian Journal of Applied Statistics*, 2014
- Bianchi A., Biffignandi, S., Responsive design for economic data in mixed-mode panels, in Springer volume «*Contribution to Statistics*», eds. Conti P.L., Mecatti F. and Ranalli M.G., 2014 ISBN 978-3-319-05319-6
- Steinmetz S., Bianchi A., Tjeldens K., Biffignandi S., Improving Web Survey Quality – Potentials and Constraints of Propensity Score Weighting. In Callegaro, M., Baker, R., Bethlehem, J., Göritz, A., Krosnick, J.A. and Lavrakas, P.J., (eds.) *Online Panel Research: A Data Quality Perspective*, Wiley, Chichester, 273-298, 2014. ISBN: 978-1-119-94177-4, DOI: 10.1002/9781118763520.ch1
- Bianchi A., Biffignandi S., Web panels representativeness, in Giudici P., Ingrassia S., Vichi M., *Statistical Models for Data Analysis, Studies in Classification, Data Analysis, and Knowledge Organization*, 2013, SSN: 1431-8814 (Print), 978-3-319-00032-9 (Online)
- Biffignandi S., Artaz R., Online data collection in Agro-Food Sector, *Proceedings of the Fourth International Conference of Establishment Surveys (ICESIV)*, June 11–14, 2012, Montréal, Canada [CD-ROM], American Statistical Association
- Biffignandi S., Bethlehem J., Web surveys: methodological problems and research perspectives, in Di Ciaccio A., Coli M., Angulo Ibanez J. M., *Advanced statistical methods for the analysis of large data-sets*, Series: Studies in theoretical and applied statistics, Subseries: Selected papers of the statistical societies, 484, 363-373, 2012, ISBN 978-3-642-21036-5
- Toninelli, D., Biffignandi, S., Analysis of two degrees levels in terms of post-university employability. *Ekonomická revue: Central European Review of Economic Issues*, 15, 237-253. doi: 10.7327/cerei.2012.12.04
- Biffignandi S., Integrated Analysis, Chapter 5, in Kenett R. S. and Salini S., *Modern analysis of customer surveys: with applications using R*, 500, 71-88, Wiley, Hoboken, United States, 2011, ISBN 978-0-470-97128-4
- Bianchi A., Biffignandi S., Sampling new businesses and analyzing their performances, Survey Research Methods and Applications: *Proceedings of the Second ITACOSM Conference*, Edizioni Plus, 121-124, 2011. ISBN: 978-88-8492-772-9
- Biffignandi S., Torres van Grinsen V., Bolko I., Bavdaž M., Motivation in business surveys, *Proceedings of the BLUE-ETS Workshop on Response Burden and Motivation in Research*, editors Deirdre G., Bavdaž M., March 2011, ISBN 978-90-357-2060-2
- Biffignandi S., Oehler M., Bolko I., Bavdaž M., Use of NSI Statistics in Textbooks, *Proceedings of the BLUE-ETS Workshop on Response Burden and Motivation in Research*, editors Deirdre G., Bavdaž M., March 2011, ISBN 978-90-357-2060-2
- Biffignandi S., Ray M., Lamarche R.H., The Geography of Employment Growth in Western Canada: A Regional Typology based on Multifactor Partitioning, *Proceedings of the Canadian Association of Geographers*, Montreal, May 31- June 4, 2011
- Biffignandi S., Internet Survey Methodology - recent trends and developments, in Lovric M., *International Encyclopedia of Statistical Science*, Springer, Berlin, Germany, 2010, Approx. 1500 p., Hardcover ISBN: 978-3-642-04897-5



- Biffignandi S., Modeling non-sampling errors and participation in Web surveys, *Proceedings of the 45th SIS Scientific Meeting*, Padova, 16-18 June, 2010, ISBN 978-88-6129-566-7
- Biffignandi S., Toninelli, Fabrizi E., The Effects of Non-Response Reweighting on Estimators' Precision in a Web Survey, *Proceedings of 45th SIS Scientific Meeting*, Padova, 16-18 June, 2010, ISBN 978-88-6129-566-7
- Biffignandi S., Zeli A., Integrating databases over time: what about representativeness in longitudinal integrated and panel data?, *Proceedings of the Q2010 Conference*, 3-5 May, 2010
- Bianchi A., Biffignandi, S., Average regional income estimation in the agro-food sector using M-quantile small area methods, *Proceedings of the Conference 11th European Symposium on Statistical Methods for the Food Industry*, Academy School, 2010, 409-414. ISBN: 88-901015-8-X
- Biffignandi S., Bianchi A., Modelling some Entrepreneurship factors, *Proceedings Challenges for Analysis of the Economy, the Businesses, and Social Progress International Scientific Conference*, Szeged (Hungary), November 19-21, 2009, Unidocument Kft., Szeged, Hungary, 2010, ISBN 978-963-069-558-9
- Biffignandi S., Fabrizi E., Toninelli D., An experiment on the effects of non-response reweighting on estimators' precision in a web survey, *Proceedings Challenges for Analysis of the Economy, the Businesses, and Social Progress International Scientific Conference*, Szeged (Hungary), November 19-21, 2009
- Biffignandi S., Bethlehem J., Web surveys: methodological problems and research perspectives, *Proceedings of the Conference of the Italian Statistical Society, "Statistical Analysis for the Analysis of Large Data-Sets"*, Pescara, September 2009, ISBN 978-88-6129-425-7
- Biffignandi S., Arruda E.F., Moriggia V., Marino A., Technology Convergence on Telecommunications Systems Integration, *International Journal of Management and Network Economics*, vol. 1, 129-159, 2009, ISSN: 1754-2316
- Biffignandi S., Oehler M., Web Sites Communication Performance: A Methodological Approach, International Workshop on Computer Users' Behavior-CUB'08, in *Proceedings DEXA 2008*, September 2008, Turin, editors A.M. Tjoa and R.R. Wagner, Published by the IEEE Computer Society, New York, United States, 2008, ISBN 978-0-7695-3299-8, ISSN 1529-4188
- Biffignandi S., Bertoli Barsotti L., Caviezel V., Le competenze dei laureati mediante l'analisi Rasch (Competences of graduates by Rasch analysis), *Rivista di economia e statistica del territorio*, n. 3, 109-135, 2007
- Biffignandi S., Dati amministrativi e integrazione tra fonti nell'ambito delle statistiche sull'agricoltura in *Proceedings of the Conference "Le Statistiche Agricole verso il Censimento del 2010: valutazioni e prospettive"*, Cassino, 26-27 October, 2006, Mancini A., Sabbatici M., Salvatore R. (editors), 2007
- Biffignandi S., Toninelli D., An integrated database and a statistical analysis to evaluate quality in universities, *Proceedings of the Conference "Excellence in Services, Higher Education, Health Care, Local Government, Tourism, Sport"*, Paisley, UK, 7-8 September, 2006.
- Biffignandi S., Fabrizi E., The relationship between industry localization and shift-share analysis, *Proceedings of the 43th SIS Scientific Meeting*, Turin, 14-16 June, 2006
- Biffignandi S., Pratesi M., Indagini WEB: propensity score matching e inferenza. Un'analisi empirica ed uno studio di simulazione, in Falorsi, Pallara, Russo (editors) *L'Integrazione di dati di fonti diverse. Tecniche e applicazioni del Record Linkage e metodi di stima basati sull'uso congiunto di fonti statistiche e amministrative*, Franco Angeli, 2006, ISBN 8846472691
- Biffignandi S., Leoni R., Dovigo F., Il processo di formazione e di inserimento dei laureati nel mondo del lavoro. I risultati delle indagini sui laureati: un confronto tra Bergamo e altri Atenei italiani, in Leoni R. (editor), *Competenze acquisite, competenze richieste e competenze espresse. Analisi e valutazioni economiche*, FrancoAngeli, Milano, 2006, ISBN 9788846474551
- Biffignandi S., Obiettivi e aspetti metodologici dell'indagine sui laureati, in Leoni R. (editor), *Competenze acquisite, competenze richieste e competenze espresse, analisi e valutazioni economiche*, Franco Angeli, Milano, 2006, ISBN 9788846474551
- Biffignandi S., Toninelli D., Integrazione tra Archivi per l'Analisi degli Sbocchi Professionali dei Laureati, Un'analisi dei risultati, Quaderni del DMSIA, Serie Ricerca, n. 11, 2006
- Biffignandi S., Fabrizi E., Mixing web and paper based data collection modes in a survey on manufacturing firms, *Proceedings of the European Conference on Quality Survey Statistics-Q2006*, Cardiff, UK, 24-26 April, 2006
- Biffignandi S., Shift-share components: statistical properties and a methodology for their analysis, *Proceedings of the International Statistical Institute Conference*, Sidney, 2005, ISBN 1-877040-28-2
- Biffignandi S., Pratesi M., Lozar Manfreda K., Vehovar V., List assisted Web Surveys: quality, timeliness and non-response in the steps of the participation flow, *Journal of Official Statistics*, vol. 20, 2004, ISSN: 0282-423X
- Biffignandi S., Della Rocca G., Pisani S., The role of trade margins in the price determination process, *Proceedings of SIS Scientific Meeting*, Bari, June 2004

- Biffignandi S., Gismondi R. Analysing the trade and commerce value chain based on integration between fiscal data and Istat surveys, *Proceedings of 45th SIS Scientific Meeting*, Bari, June, 2004
- Biffignandi S. and Pisani S., A Statistical Database For The Trade Sector. A Prototype Of A New Data Collection Tool, *Proceedings of Compstat04*, Prague, August, 2004
- Biffignandi S., La qualità dell'informazione statistica nell'ottica del sistema e degli enti territoriali, in Biffignandi S., Gozzi G. (eds.), *Qualità e informazione statistico economica territoriale: aspetti del processo di formazione dei dati e delle metodologie di analisi*, Franco Angeli, Milano, 2003, ISBN 9788846445841
- Biffignandi S., Pratesi M., Potentiality of propensity scores methods in weighting for Web surveys: a simulation study [based on a statistical register], in Falorsi P. (editor), Franco Angeli, Milano, 2004
- Biffignandi S., Pratesi M., Tempestività e qualità: aspetti concettuali e comportamenti di risposta nelle indagini via Internet. Un'applicazione ad un'indagine regionale sulle imprese, in Biffignandi S., Gozzi G. (eds.), *Qualità e informazione statistico economica territoriale: aspetti del processo di formazione dei dati e delle metodologie di analisi*, Franco Angeli, Milano, 2003, ISBN 9788846445841
- Biffignandi S., Dal data mining al text mining, al web mining, Quaderni del Dipartimento di Matematica, Statistica, *Informatica e Applicazioni*, n. 8, 2003
- Biffignandi S., Web communication behaviour of banking institutes: a case study, Quaderni del Dipartimento di Matematica, Statistica, Informatica e Applicazioni, n. 8, 2003
- Biffignandi S., Pratesi M., Internet surveys: the role of time in Italian firms response behaviour, *Research in Official Statistics*, n. 2, 2002
- Biffignandi S., Pratesi M. Modeling The Respondents' Profile In A Web Survey On Firms In Italy, In A. Ferligoj, A. Mrvar (ed.), *Developments in Social Science Methodology, Metodoloski zveski*, 18, Ljubljana, 2002
- Biffignandi S., Pratesi M., "Internet surveys: timeliness of data collection and individual survey period length", *Proceedings of the International Conference "Methodology and Statistics"*, Ljubljana 17-19 September 2001.
- Biffignandi S., Pisani S., Satellite Accounts for Trade: How to build them and how to set up suitable data, *Proceedings of the ICESII Conference*, Buffalo, USA, June 2000
- Biffignandi S., Pratesi M., Modelling firms response and contact probabilities in Web surveys, ICESII Proceeding Conference, Buffalo, USA, June 2000
- Biffignandi S., L'analisi statistico economica dei gruppi d'impresa: problemi e risultati, (Statistical and economical analysis of enterprise groups: problems and results), in Filippucci C. (editor) "Tecnologie informatiche e fonti amministrative nella produzione di dati", Franco Angeli, Milano, 2000
- Biffignandi S., Pratesi M., "Inquiries on firms: aspects, methodologies and an analysis of the interviewed" in Information technologies and administrative sources in the production of data, C. Filippucci, ed. Franco Angeli, Milan, 2000 (in Italian).
- Biffignandi S., Pratesi M., "Modelling firm response and contact probabilities in Web Surveys", *Proceedings of the International Conference on Establishment Surveys (ICES II)*, Buffalo, USA, June 2000
- Biffignandi S., Bosa L., "La previsione delle insolvenze nel settore tessile: scelta delle variabili e confronto tra analisi discriminante parametrica e non parametrica", (Failure forecasting), *Rivista di Statistica Applicata*, N. 3, Vol. 10, 1998
- Biffignandi S., "Principi della statistica e attività degli operatori degli uffici di statistica comunali", (Basic statistical criteria for the heads of the statistical offices in the municipalities), *Quaderni del Dipartimento di Matematica, Statistica, Informatica e Applicazioni*, Serie Didattica, n. 13, 1998
- Biffignandi, S. Bonzani, B. Rizzi, Estimating the Efficiency of the Banking Sector: a parametric analysis on Italian Microdata, in *Micro and Macrodata of Firms, Statistical Analyses and International Comparison*, Biffignandi S. (editor), Physica Verlag, 1999
- Biffignandi S., Butti C., Schionato L., Stratification Variables and Criteria for Detecting the Active Status of a Business, in *The Evolution of Firms and Industries. International Perspectives*, Laaksonen S. (ed.), Statistics Finland, 1997
- Biffignandi S., "Stato e prospettive dell'analisi statistica delle imprese: utenti, problemi e metodi", (State of Art and Perspective of the statistical analysis of businesses: Users, problems and methods), in *Proceedings of the Conference of the Italian Statistical Society "Informazione statistica per le imprese" (Statistical Information for businesses)*, Torino, 1997.
- Biffignandi S., "Considerazioni sulla costruzione del sistema statistico delle imprese", (Remarks on the construction of the enterprise statistical system), *Quaderni del Dipartimento di Matematica, Statistica, Informatica e Applicazioni*, n. 16, 1995
- Biffignandi S., Zerboni A., Le indagini statistico-economiche delle istituzioni e delle associazioni di categoria, (Statistical economic survey of institutions and industrial associations) *Bergamo Economica*, N.1, March 1996

- Biffignandi S., Proietti T., Pratesi M., Schionato L., "Sistema statistico delle Imprese. Rapporto Finale", (Statistical System on businesses in Italy, Final Report), Rapporto di ricerca 96.08 della Commissione di garanzia per l'Informazione Statistica, (Report of the Advisory Board on Statistics), documento a circolazione limitata, Roma, September 1996
- Biffignandi S., Proietti T., Pratesi M., Schionato L., "Sistema statistico delle Imprese in Italia", (Statistical System on businesses in Italy), Rapporto di ricerca 95.08 della Commissione di garanzia per l'Informazione Statistica, documento a circolazione limitata, Roma, (Report of the Advisory Board on Statistics), June 1995
- Biffignandi S., Gambaro M., "Il settore della distribuzione commerciale", (The trade sector), in *Rapporto sull'economia bergamasca (1995-96)*, Bergamo
- Biffignandi S., Zerboni A., "Strutture di gruppo di imprese ed analisi statistico economiche", (Enterprise groups and statistical economic analysis), Rapporto di ricerca, Bergamo, 1995.
- Biffignandi S., "Il registro statistico e i dati amministrativi sulle imprese: approcci e problematiche", (Business register and administrative data on businesses: approaches and problems), in Biffignandi S., Martini M. (editors), *Il registro statistico europeo delle imprese in Europa. Esperienze e metodi per la sua costruzione in Italia*, (European business register in Europe. Experiences and methods for its construction in Italy) Franco Angeli, Milano, 1995
- Biffignandi S., Intervento al Convegno "Informazione statistica e realtà locali: dai censimenti al Sistema Statistico Regionale", (Statistical information and local reality: from censuses to the Statistical Regional System) in *Proceedings of the Conference*, Perugia, 12 January 1995.
- Biffignandi S., "Integrazione di archivi e sistema statistico delle imprese", (Databases integration and statistical system on businesses), in *Proceedings of the Conference of the Italian Statistical Society*, San Remo, April 1994.
- Biffignandi S., "Il sistema territoriale delle informazioni" (The system of territorial information", in "Conoscere per decidere: come utilizzare un sistema informativo territoriale"; Dispense del corso della Camera di Commercio per funzionari e operatori, (in Tutorial Manual for the Course of the Chamber of Commerce), 1995
- Biffignandi S., "L'analisi dei comportamenti delle piccole imprese. Problematiche di studio", (Small enterprises behaviour: problems of analysis), *Impresa & Stato*, 1994.
- Biffignandi S., "Dai triangoli all'industrializzazione diffusa", (From the "industrial triangle" to the diffusion of industrialization), *Proceedings of the Conference "La Lombardia orientale e la sua funzione di snodo nei nuovi assetti territoriali europei"*, Guerini Editore, Milano, 1993.
- Biffignandi S., Butti C., Administrative Registers and National Surveys, *Proceedings of the International Conference on Establishment Surveys*, Buffalo, 27-29 June, 1993
- Biffignandi S., "Microaree imprenditoriali e informazioni statistiche", (Economic microareas and statistical information), *Impresa & Stato*, N. 15, September, 1991
- Biffignandi S., "Il commercio estero, e in particolare il commercio intra-industriale: considerazioni alla luce di un'analisi regionale", (External trade and intra.industry trade: a regional analysis), *Quaderni del Dipartimento di Matematica, Statistica, Informatica e Applicazioni*, Bergamo, N. 29, 1988.
- Biffignandi S., Recent advances in econometric modelling: causality, time series methods and computer applications (Biffignandi S., editor), *Proceedings, Special Issue, Economic Notes*, 1988.
- Biffignandi S., "Modelli di organizzazione spaziale dell'industria", (Spatial organizational patterns of the industry), in *Proceedings of the XXXIII Conference of the Italian Statistical Society*, Bari, 28-30 April 1986.

Editor  
2003-2009  
Previously

Co-editor of the Review Statistical Methods and Application, Springer Verlag  
Associate Editor of the International Journal of Forecasting  
Associate Editor of the Journal of Forecasting  
Associate editor of Rivista di Statistica Applicata, of Proposte Interdisciplinari, Il nuovo management

Scientific Memberships

SIS (Italian Statistical Society)  
ISI (International Statistical Institute)  
IASS (International Association Social Surveys)  
IAOS (International Association Official Statistics)  
ASA (American Statistical Association)  
Jury membership of IASS Hansen Prize 2003

- International Visiting For studying the experiences on “The integrated statistical system on businesses” (1993)
- Washington (USA) at the Bureau of Census,
  - Washington (USA) at the International Revenue Service
  - Washington (USA) at the Bureau of Labor Statistics
  - Ottawa (Canada) at the Statistics Canada
  - Paris (France) at INSEE