

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name	BIANCHI ANNAMARIA
Address	Via dei Caniana 2, Bergamo – office 202
E-mail	annamaria.bianchi@unibg.it
Nationality	Italian

CURRENT POSITION

Since March 2020

Associated Professor in Business Statistics at the Department of Management, Economics and Quantitative Methods of the University of Bergamo.

Since January 2021

Reference professor of the curriculum EMOS (European Master in Official Statistics) within the Master EDA (Economics and Data Analysis) at the University of Bergamo

PREVIOUS POSITIONS

October 2016 – March 2020

Researcher (RTD-B) in Business Statistics at the Department of Management, Economics and Quantitative Methods of the University of Bergamo.

2008-2016

Research Fellow in Business Statistics at the Department of Management, Economics and Quantitative Methods of the University of Bergamo.
Project supervisor: Prof. Biffignandi.

TEACHING EXPERIENCE

UNDERGRADUATE

Year	Course
Since AY 2019/2020	Lecturer of the course « <i>Data Production and Analysis – Module 2</i> », course in the EMOS (European Master in Official Statistics) curriculum at the Department of Management, Economics and Quantitative Methods University of Bergamo (36 hours).
Since AY 2016/2017	Lecturer of the course « <i>Statistics for Management</i> », University of Bergamo (72 hours).
AY 2015/2016	Lecturer of the course « <i>Introduction to Stata for economic analyses</i> », University of Bergamo.
AY 2014/2015 and 2015/2016	Lecturer of the course « <i>Economical Statistics II</i> », University of Milano Bicocca.
AY 2014/2015 and 2015/2016	Lecturer of the course « <i>Multivariate Statistics with R</i> », University of Bergamo.
AY 2012/2013	Lecturer of the course « <i>Probability and Statistics for Business and Finance</i> », University of Bergamo.
AY 2009/2010	Lecturer of the course « <i>Statistics I</i> », University of Bergamo - Treviglio
AY 2010/2011	Teaching assistant for the course « <i>Statistics 2</i> », given by Prof. Bertoli-Barsotti, University of Bergamo.
AY 2005/2006 until 2009/2010	Teaching assistant for the course « <i>Business Statistics</i> », given by Prof. Biffignandi, University of Bergamo.
AY 2006/2007 until 2009/2010	Teaching assistant for the course « <i>Advanced Statistics</i> », given by Prof. Bertoli-Barsotti, University of Bergamo.
AY 2007/2008 and 2009/2010	Teaching assistant for the course « <i>Economical Statistics</i> », given by Prof. Biffignandi, University of Bergamo.
AY 2006/2007	Teaching assistant for the course « <i>Probability and Mathematical Statistics</i> », given by Prof. Piazza, Politecnico di Milano.
AY 2004/2005 until 2007/2008	Lecturer of the course « <i>Basic Introduction to SAS</i> », University of Bergamo.
AY 2005/2006	Lecturer of the course « <i>Business Statistics</i> » within the course FSE 2004 – IFTS entitled « <i>Expert on quality of the product and the process</i> ».

AY 2004/2005 and 2005/2006

Laboratory of the course «*Probability and Mathematical Statistics 2*» given by Prof. Micheletti, University of Milan.

GRADUATE

Year

Course

AY 2015/2016

Lecturer of the course «*Imputation Methods*», Ph.D. School in Analytics for Economics and Business, University of Bergamo and University of Brescia.

October 2015

Lecturer of the course «*Introduction to SAS for the statistical offices of local authorities*» organized by the School of the Italian Statistical Society (SIS), 12-14 October 2015, Milan.

October 2014

Lecturer of the course «*Paradata and Responsive Survey Designs*» at the Webdatanet 2nd Training School «*Web Survey Paradata*», 1-3 October 2014, Alexandroupolis, Greece.

AY 2013/2014 and 2014/2015

Lecturer of the course «*Stochastic Processes*», Ph.D. School in Analytics for Economics and Business, University of Bergamo and University of Brescia.

From AY 2013/2014 to 2015/2016

Lecturer of the course «*Measure Theory*», Ph.D. School in Analytics for Economics and Business, University of Bergamo and University of Brescia.

March 2013

Lecturer of the Short Course «*Introduction to weighting online surveys*», given during the General Online Research Conference (GOR), Mannheim, 6 March 2013.

AY 2012/2013 and 2014/2015

Lecturer of the course «*Measure Theory*», Ph.D. School in Economics, Applied Mathematics and Operational Research, University of Bergamo.

AY 2011/2012 and 2012/2013

Lecturer of the course «*Course on Quantitative Methods*», Ph.D. in Strategic Marketing and Business Administration, University of Bergamo.

AY 2010/2011 until 2012/2013

Lecturer of the course «*Stochastic Processes*», Ph.D. School in Economics, Applied Mathematics and Operational Research, University of Bergamo.

AY 2009/2010

Lecturer of the course «*Measure Theory*», Ph.D. in Computational Methods for Forecasting and Decisions in Economics and Finance, University of Bergamo.

AY 2008/2009 until 2011/2012

Lecturer of the course «*Statistics for Research*», Ph.D. in Logistic and Supply Chain Management, University of Bergamo.

EDUCATION AND TRAINING

• Dates

November 2003 – October 2006

• Name and type of organisation providing education and training

PhD in Mathematics and Statistics for Computational Sciences at the University of Milan and in **Sciences Mathématiques** at the University Paris 6. The thesis was developed within a bilateral research programme ("cotutela") between the University of Milan and the University Paris 6. The research was carried out in the two universities. In particular, I spent approximately seven months in Paris during the academic year 2005/2006.

• Principal subjects/occupational skills covered

Statistics, Probability, Stochastic Calculus, Stochastic Differential Equations
Title of the thesis: *Problems of Statistical Inference for Multidimensional Diffusions*
Subject of the thesis: (Nonparametric) Estimation of the drift coefficient in multidimensional stochastic differential equations and study of the asymptotic properties of the estimator.
Advisors: Prof. Vincenzo Capasso (University of Milan) and Prof. Denis Bosq (University Paris 6)
June 2007: dissertation of the thesis in front of the commission composed by Prof. Y. Davydov, Prof. D. Blanke, Prof. D. Bosq, Prof. V. Capasso, Prof. D. Posa, Prof. L.M. Ricciardi (mark: **Excellent**).

• Title of qualification awarded

PhD in Mathematics and Statistics for Computational Sciences at the University of Milan
Docteur en Sciences Mathématiques de Paris Centre

• Dates

September 1998 – September 2003

• Name and type of organisation providing education and training

Master Degree in Mathematics at the University of Milan. (Summa cum laude)

• Principal subjects/occupational skills covered

Title of the thesis: *Analysis of Non Linear Multivariate Time Series*
Advisor: Prof. Vincenzo Capasso
Analytic skills, methodological instruments and knowledge of pure and applied mathematics.

• Title of qualification awarded

Master Degree in Mathematics

• Dates

January – June 2002

• Name and type of organisation providing education and training

Erasmus at the University of Lyngby (Denmark)

SCHOOL - WORKSHOPS

- 2016** Introductory Overview Lecture «*Imputation Methods*», tenuta da Ton de Waal (Statistics Netherlands) e Rebecca R. Andridge (Ohio State University), Ginevra, 22 June 2016.
- 2015** Course «*Total Survey Error Framework: Essentials*», given by Prof. Paul Biemer (RTI International e University of North Carolina) and Prof. Lars Lyeberg (University of Stockholm), Baltimore, 18 September 2015.
- Course «*Bayesian Inference for Sample Surveys*», given by Prof. Roderick J. Little (University of Michigan), Stockholm, 10-11 June 2015.
- Course «*Practical Tools for Nonresponse Bias Evaluation*», given by Dr. Kristen Olson (University of Nebraska-Lincoln), Stockholm, 10-11 June 2015.
- Course «*Introduction to Understanding Society using Stata*», ISER, University of Essex, Colchester, 26-27 March 2015.
- Course «*R in the Official Statistics*», given by Matthias Templ (Vienna University and Statistics Austria and Palacký University Olomouc) and Valentin Todorov (UNIDO), Brussels, 13 March 2015.
- 2014** Course «SAS Macro Language 1», SAS Institute, Milan 13-14 November 2014.
- Conference «Mobile Research», Larnaka, Cyprus, 31 March 2014.
- Workshop «Building a probabilistic panel online in Southern Europe», Research and Expertise Centre for Survey Methodology (RECSM), Universitat Pompeu Fabra, Barcelona, 11 March 2014.
- 2013** Course «Microeconometrics using Stata», given by Dr. David Drukker (Director of Econometrics, Stata Corporation), University of Bergamo, 11-12 November 2013.
- Conference «Mixed-Mode and Multi-method Research», Reykjavik, 16th September 2013.
- Course «Multilevel modeling for survey data», given by Bart Meuleman, University of Leuven, Ljubljana, 15 July 2013.
- Course «Sampling strategies for domains estimation», given by Stefano Falorsi and Paolo Righi (Istat), Milan, 25 June 2013.
- Course «Sample Weighting: Basics, Boosters and Beyond», given by Dr. Stas Kolenikov (Abt SRBI) and Dr. Trent D. Buskirk (The Nilesen Company), Boston, 16 May 2013.
- 2012** Course «Panel Analysis», given by Prof. Beat Hülliger (University of Applied Sciences Northwestern Switzerland), University of Bergamo, 4-6 December 2012.
- Courses «Panel Data Analysis Techniques with HILDA Examples» and «Dynamic Modelling for Panel Data», given by Prof. Steve Pudney (University of Essex), University of Melbourne, 27-30 November 2012.
- E-learning course «Survey Non Response», given by Jelke Bethlehem (Statistics Netherlands), November 2012.
- Course «Mixed-modes, Structural Equation Modelling, and Measurement Errors in Survey Research», given by Mélanie Révilla (Research and Expertise Centre for Survey Methodology RECSM, University Pompeu Fabra, Barcelona), organized by CASI, University of Bergamo, 22-24 October 2012.
- Seminar «Optimal Survey Strategies in the Multivariate Multi-domain context with Multiple sources of Administrative Information covering different Population Subsets», given by Piero Falorsi (Istat), 17 October 2012.
- CIdE Course «Panel data Econometrics: theory and applications», Bertinoro (FC), 27 August-1 September 2012.
- 2011** SAS Campus 2011 «Business Intelligence and Analytics in università, business and government for the growth of the National economy», University of Milano Bicocca, 22 November 2011.
- Course «Survey nonresponse: reduction, bias and comparability», given by Prof. Jelke Bethlehem (Statistics Netherlands) and Dr. Ineke Stoop (the Netherlands Institute for Social Research/SCP), Lausanne (Switzerland), 18 July 2011.
- Course «KFS 101: Longitudinal and Survival Analysis of Business Data», given by Alicia Robb (Senior Researcher Fellow at the Ewing Marion Kauffman Foundation), San Francisco, 31st May - 1st June 2011.
- 2009** Workshop «Internet Survey Methodology 2009 (ISM09)», University of Bergamo, 17-19 September 2009.
- Short Course «Small Area Estimation», given by Gauri S. Datta (University of Georgia) at the Department of Statistics of the University of Milano-Bicocca, June 2009.
- 2007** Colloque «Statistique non Paramétrique et Statistique des Processus», in honour of Prof. Denis Bosq, Université Paris 6, Paris, 14 September 2007.
- 2005** Workshop «Deterministic and Stochastic Modelling in Biomedicine, Economics and Industry», Department of Mathematics, University of Milan, 4 – 6 September 2005.
- Workshop «Integrazione di Sistemi Complessi in Biomedicina: modelli, simulazioni, rappresentazioni» organized by MOX of the Politecnico di Milano, Bergamo, 22 November 2005.

2004

Summer school «Stochastic Geometry» organized by CIME (Centro Internazionale Matematico Estivo), Martina Franca, 13 – 18 September 2004.

ECMI (European Consortium for Mathematics in Industry) modelling week 2004, Lappeenranta University of Technology, Finland, 13 – 22 August 2004. Accomplishment of the requisites for the ECMI European Certificate.

School «Does noise simplify or complicate the dynamics of nonlinear systems?», Department of Mathematics, University of Torino, 13 – 21 April 2004.

RESEARCH EXPERIENCE

RESEARCH INTERESTS

Current research themes:

Non-probabilistic methods for data collection and inference: investigation of methods for the development of estimates from non-probabilistic data sources. Development of a quality framework for Twitter data.

The problem of non-response in surveys and indicators of representativity: with reference to socio-economic variables and problems of representativity, study of attrition and representativity of the panel Understanding Society and contribution to the development of indicators that do not need the knowledge of characteristics for non-respondents to the survey.

Responsive design: with reference to socio-economic variables, investigation of the responsive design method to improve survey estimates. Applications to the panel PAADEL-Producers and Understanding Society Innovation Panel.

Sampling and inference issues for the construction of representative online panels: construction of the probabilistic panels (partially online) PAADEL-Consumers and PAADEL-Producers and development of appropriate corrective weights to address the problem of non-response for the estimation of socio-economic variables; improvement of income and wage estimates both in the case of probabilistic and non-probabilistic panels.

Shift-share analysis and economic analysis: study of the variation in employment and local units in Italy in a period of crisis, through an innovative use of the Multifactor partitioning methodology. Analyses are conducted using ASIA database (Archivio Statistico delle Imprese Attive).

M-quantile models and small area estimation: methodological development for M-quantile small area estimation.

Models for the analysis of performance and entrepreneurship: study of the factors of entrepreneurship through the introduction of an innovative index for the measurement of entrepreneurship based on M-quantile regression.

Bootstrap tests: study of the structural stability models for S&P 500 time series and dividends through the use of the Vector Error Correction Model and the combination of non-independent hypothesis tests.

GARCH models: investigation of the properties of the Dynamic Conditional Correlation (DCC) model assuming returns following the Asymmetric Multivariate Laplace distribution. Application to 21 FTSE All-World stock indices and 12 bond return indices.

ON-GOING INTERNATIONAL COLLABORATIONS

Prof. Ralf Münnich (University of Trier): this collaboration has started in 2020 and it is aimed at the study of estimation methods for non-probability samples.

Prof. Peter Lynn (University of Essex, UK) for studies of issues related to the construction of longitudinal probability-based panels, as the introduction of web data collection and the use of responsive design techniques.

Dr. Barry Schouten (Statistics Netherlands), **Prof. Natalie Shlomo** (University of Manchester) e **dr. Damião N. Da Silva** (Universidade federal do Rio Grande do Norte, Brazil) for the development of representativity indicators for surveys.

Prof. Nicola Salvati (Università di Pisa), **Prof. Enrico Fabrizi** (Università Cattolica del Sacro Cuore), and **Prof. Nikos Tzavidis** (University of Southampton) for the development of methods for small area estimation.

Dr. Stephanie Steinmetz (University of Amsterdam), **Dr. Vera Toepoel** (University of Utrecht), **Dr. Ioannis Andreadis** (University of Thessaloniki) and **Prof. Andrea Guðbjörg Jónsdóttir** (University of Iceland) for studying non-probabilistic panels.

**PARTICIPATION AT THE
FOLLOWING RESEARCH
PROJECTS**

Year

Project

2020	«Construction of innovative socio-economic indicators», research ex-60% University of Bergamo (leader).
2019	«Economic Indicators and Technological Innovations», research ex-60% University of Bergamo (leader).
2018	«Economic Statistics and Economics», research ex-60% University of Bergamo (leader).
2017	«Re-design of surveys», research ex-60% University of Bergamo (leader).
2016	«Integration of data sources and re-design of surveys and data collection process», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).
2015	«Statistical information and quality for the society and the economy in the era of technology and innovation», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).
2014	«New approaches for the analysis of complex scenarios», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).
2013	«Web and social network as tools for conducting surveys and building panels», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).
2011-2015	«WEBDATANET: Web-based data-collection, methodological challenges solutions and implementation», COST Action IS1004.
2011-2012	«Demographic Panel for the agro-food sector (PAADEL)», project funded by the Lombardy Region, scientific coordinator: Prof. Biffignandi.
2008-2011	Post-doc researcher in the project « <i>Statistical models and indicators for studying the impact of educational factors on entrepreneurship</i> ».
2011	«Methods for construction of surveys and on-line panels for the collection of socio-economic information and for the development of new indicators», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).
2010	«Instruments and methods for the improvement of the quality and use of new technologies in surveys», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).
2009	«Data and models for competitiveness analysis», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).
2008	«Methods of statistical measurement for services», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).
2007	«Indicators and statistical models for the analysis of entrepreneurship», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).
2007	Collaboration at the statistical analysis within the DMSIA research project «Analysis and study of the tertiary industry in the province of Bergamo».
2005	«Problems of definition, classification and statistical analysis of the performances of educational processes with respect to the needs of the business world», research ex-60%, supervisor Prof. Biffignandi (University of Bergamo).

FELLOWSHIPS

13 March 2018 – 30 June 2021	Research Associate of the Institute for Social and Economic Research (ISER, University of Essex)
Since 1 January 2017	Research Fellow at Carleton University (Ottawa, Canada)
1 September 2015 – 30 November 2020	Research Fellow at CASS Business School (London, UK)

VISITING POSITIONS

Research visit at **Trier University**, Trier (Germany), 13-18 January 2020, in the framework of the INGRID2 network. Collaboration with Prof. Ralf Münnich.

Research visit at **McGill University**, Montreal (Canada), 9-12 April 2017. Collaboration with Prof. Jean-Marie Dufour and Prof. Lynda Khalaf.

ISER Institute for Social and Economic Research (University of Essex), Colchester, 24 March-29 April 2015 (Short Term Scientific Mission – STSM – in the framework of the COST Action IS1004 WEBDATANET). Collaboration with Prof. Peter Lynn.

CCSR School of Social Sciences (University of Manchester), Manchester, 27 May-22 June 2013 (Short Term Scientific Mission – STSM – in the framework of the COST Action IS1004 WEBDATANET). Collaboration with Prof. Natalie Shlomo.

Amsterdam Institute for Advanced Labour Studies, Amsterdam, 22 May-16 June 2012 (Short Term Scientific Mission – STSM – in the framework of the COST Action IS1004 WEBDATANET). Collaboration with Dr. Stephanie Steinmetz and Prof. Kea Tijdens.

AWARDS

Winner of the Grant for a research visit at Trier University in the framework on the INGRID2 network.

Winner of the Fondo per il Finanziamento delle Attività Base di Ricerca (FFABR 2017).

Winner of the Innovation Panel Competition 2015 to develop a new experiment in Wave 9 of Understanding Society Innovation Panel.

Winner of the Grant for a Short Term Scientific Mission (STSM) at the ISER Institute for Social and Economic Research (University of Essex) from COST Action IS1004 WEBDATANET.

Winner of the Conference Grant for Early Stage Researchers from COST (European Cooperation in Science and Technology) – ISCH Domain – January 2013 – for the participation to the 68th Annual Conference of the American Association for Public Opinion Research (AAPOR).

Winner of the Grant for a Short Term Scientific Mission (STSM) at the CCSR School of Social Sciences (University of Manchester) from COST Action IS1004 WEBDATANET.

Winner of the Grant for a Short Term Scientific Mission (STSM) at Amsterdam Institute for Advanced Labour Studies from COST Action IS1004 WEBDATANET.

Winner of Ph.D. Scholarship at the Department of Mathematics “F. Enriques” (University of Milan) for the years 2003-2006.

PUBLICATIONS

ARTICLES IN REFEREED JOURNALS

Bianchi, A. and Biffignandi, S. (2020) «Workplace Social Environment Indicator: A Comparative Analysis of European Regions», *Social Indicators Research*, DOI: 10.1007/s11205-020-02344-5.

Salvatore, C., **Bianchi, A.**, and Biffignandi, S. (2020) «Social Media and Twitter Data Quality for New Social Indicators», *Social Indicators Research*, DOI: 10.1007/s11205-020-02296-w.

Bergamelli, M., **Bianchi, A.**, Khalaf, L. and Urga, G. (2019) «Combining p-values to test for multiple structural breaks in cointegrated regressions», *Journal of Econometrics*, 211(2), 461-482. DOI: <https://doi.org/10.1016/j.jeconom.2019.01.013>.

Bianchi, A., Shlomo, N., Schouten, B., Da Silva, D. and Skinner, C. (2019) «Estimation of Response Propensities and Indicators of Representative Response Using Population-Level Information», *Survey Methodology*, 45(2), 217-247.

Bianchi, A. and Biffignandi, S. (2019) «Social indicators to explain response in longitudinal studies», *Social Indicators Research*, 141, 931-957. DOI: 10.1007/s11205-018-1874-7.

Bianchi, A., Fabrizi, E., Salvati, N. and Tzavidis, N. (2018) «Estimation and Testing in M-quantile Regression with Applications to Small Area Estimation», *International Statistical Review*, 86(3), 541-570. DOI 10.1111/insr.12267.

Bianchi, A. and Biffignandi, S. (2018) «Employment Growth by Firm Size during the Recent Crisis in Italy: A Multifactor Partitioning Analysis», *Growth and Change*, 49(2), 314-338. DOI: 10.1111/grow.12247.

Bianchi, A., Biffignandi, S. and Lynn, P. (2017) «Web-CAPI sequential mixed mode design in a longitudinal survey: effects on response rates, sample composition and costs», *Journal of Official Statistics*, 33(2), 385-408.

Bianchi, A. and Biffignandi, S., (2017) «Representativeness in panel surveys», *Mathematical Population Studies*, 24(2), 126-143. DOI: 10.1080/08898480.2016.1271650.

Bianchi, A. and Biffignandi, S., (2017) «Targeted letters: Effects on sample composition and item non-response», *Statistical Journal of the International Association for Official Statistics*, 33, 459-467. DOI: 10.3233/SJI-150191.

Bianchi, A. and Biffignandi, S. (2017) «The effect of size on business net change during crises: a multifactor partitioning analysis of Italian regions during 2007-2010», *Letters in Spatial and Resource Sciences*, 10(2), 237-251. DOI: 10.1007/s12076-017-0185-y.

Lucarelli, S., Andrini, F. and **Bianchi, A.** (2018) «Euro depreciation and trade asymmetries between Germany and Italy versus the US: industry-level estimates», *Applied Economics*, 50(1), 15-34. DOI: <http://dx.doi.org/10.1080/00036846.2017.1311000>.

Bianchi, A. and Biffignandi, S. (2015) «The Paadel Panel: a Probability-based Panel for Consumer Studies», *Italian Journal of Applied Statistics* 23(3), 307-330, issue year 2011.

Bianchi, A. and Biffignandi, S. (2015) «Decomposing employment change in a crisis period in Italy: a multifactor partitioning approach», *Italian Journal of Applied Statistics*, 24(2), 195-214, issue year 2012.

Bianchi, A. and Salvati, N. (2014) «Asymptotic properties and variance estimators of the M-

BOOK CONTRIBUTIONS

- quantile regression coefficients estimators», *Communications in Statistics – Theory and Methods*, 44(11), 2416-2429. ISSN: 1532-415X, doi: 10.1080/03610926.2013.791375.
- Bianchi, A.** and Biffignandi, S. (2012) «Measuring and analyzing performance in longitudinal data», *Quaderni di Statistica*, 14, 37-40, ISSN: 1594-3739, ISBN: 978-88-207-5852-3.
- Bianchi, A.** and Biffignandi, S. (2012) «A new Index of Entrepreneurship Measure», *Journal of Marketing Development and Competitiveness*, 6(4), 35-50. ISSN: 2155-2843.
- Ortobelli Lozza, S., Angelelli, E. and **Bianchi, A.** (2011) «Financial Applications of Bivariate Markov Processes», *Mathematical Problems in Engineering*, 15 pages, doi: 10.1155/2011/347604. EISSN: 1563-5147.
- Bianchi A.** (2009) «The Normal Approximation Rate for the Drift Estimator of Multidimensional Diffusions», *Stat. Inf. Stoch. Proc.*, 12(3), 251 – 268. ISSN: 1387-0874.
- Bianchi A.** (2007) «Nonparametric Trend Coefficient Estimation for Multidimensional Diffusions», *C. R. Acad. Sci. Paris, Ser. I* 345, 101 – 105. ISSN: 1631-073X.
- Bianchi, A.** and Schouten, B. (2021) «Adaptive and responsive design», in Biffignandi, S. and Bethlehem, J. (Eds.) «Handbook of Web Surveys», forthcoming.
- Bianchi, A.** and Biffignandi, S. (2019) «Survey experiments on interactions: a case study of incentives and modes», in Lavrakas, P.J., Traugott, M.W., Kennedy, C., Holbrook, A.L., de Leeuw, E.D. and West, B.T. (Eds.) «*Experimental Methods in Survey Research: Techniques that Combine Random Sampling with Random Assignment*». Hoboken NJ: John Wiley & Sons, ch.4, 69-88. DOI: 10.1002/9781119083771.ch4. ISBN: 978-1-119-08374-0.
- Bianchi, A.** (2016) «M-quantile small area estimation for panel data», in Alleva, G., Giommi A. (Eds.) «*Topics in Theoretical and Applied Statistics*», Springer (Studies in Theoretical and Applied Statistics), 123-131. DOI 10.1007/978-3-319-27274-0_11. ISBN: 978-3-319-27274-0.
- Bianchi, A.** and Biffignandi, S. (2014) «Responsive design for economic data in mixed-mode panels», in Mecatti, F., Conti P.L., and Ranalli, M.G. (Eds.) «*Contributions to Sampling Statistics*», Springer, 85-102. ISBN: 978-3-319-05319-6.
- Steinmetz, S., **Bianchi, A.**, Tijdens, K. and Biffignandi, S. (2014) «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. ISBN: 978-1-119-94177-4.
- Bianchi, A.** and Biffignandi, S. (2013), «Web panel representativeness», in Giudici, P. Ingrassia, S. and Vichi, M. (Eds.) «*Statistical Models for Data Analysis*», Springer, Berlin, 37-44. ISBN 978-3-319-00031-2.
- Bianchi, A.** (2012) «Results from the first wave of surveys», in Biffignandi, S. (Ed.) «*Il Panel Agro-Alimentare Demografico Lombardo (PAADEL). Un'infrastruttura di monitoraggio dell'innovazione nella produzione e nei consumi del settore agroalimentare*», Franco Angeli, 69-83. ISBN 978-88-204-2016-1.
- Bianchi A.** (2006), «Invariant Density Estimation for Multidimensional Diffusions», in Aletti, G., Micheletti, A., Morale, D. and Burger, M. (Eds.) «*Math Everywhere, Deterministic and Stochastic Modelling in Biomedicine, Economics and Industry*», Springer, Heidelberg, 39 -- 50. ISBN: 978-3-540-44445-9.

PROCEEDINGS

- Bianchi, A.**, Fabrizi, E., Salvati, N. and Tzavidis, N. (2017), «M-quantile regression in small area estimation estimation and testing», in CLADAG 2017, Book of short papers. ISBN: 9788899459710.
- Bianchi, A.** and Biffignandi, S. (2017), «Integrating a refreshment sample in a longitudinal survey: effects of different weighting methods over four waves», in: *New Techniques and Technologies for Statistics 2017 Proceedings*, Brussels, March 13-16 2017, Eurostat – European Commission, 1-4, DOI 10.2901/EUROSTAT.C2017.001.
- Bianchi, A.** and Biffignandi, S. (2016), «Multifactor Partitioning: an analysis of employment and firm size», *Proceedings of the 48th Scientific Meeting of the Italian Statistical Society*. ISBN: 9788861970618.
- Bianchi, A.**, Fabrizi, E., Salvati, N. and Tzavidis, N. (2016), «M-quantile regression: diagnostics and parametric representation of the model», *Proceedings CLADAG 2015*. ISBN: 978-88-8467-949-9.
- Bianchi, A.** and Biffignandi, S. (2015), «The representativity of a panel for the general population», *Longitudinal and Life Course Studies: International Journal*, Supplement, 6(3), 38. ISSN: 1757-9597.
- Bianchi, A.** and Biffignandi, S. (2015), «Targeted designs in surveys and longitudinal studies»,

in: *New Techniques and Technologies for Statistics*, Brussels, March 9-13 2015, Eurostat – European Commission, 1-4, DOI 10.2901/EUROSTAT.C2015.001.

Bianchi, A. and Biffignandi, S. (2013) «Responsive design for mixed-mode panel data», in Nicolussi, F. e Mecatti, F. (eds.) «*Book of abstract, Italian Conference on Survey Methodology*», Libreria Universitaria edizioni, 41-42, ISBN978-886292-390-3.

Bianchi, A. (2012), «Small area estimation for panel data», *Proceedings of the XLVI Scientific Meeting of the Italian Statistical Society*, ISBN: 978-88-6129-882-8.

Bianchi, A. and Biffignandi, S. (2011), «Web panel representativeness and uses», *Proceedings of the 8th Scientific Meeting of the CLAssification and Data Analysis Group (CLADAG 2011)*. ISBN: 978-88-906639.

Bianchi, A. and Biffignandi, S. (2011), «Sampling new businesses and analyzing their performances», *Survey Research Methods and Applications: Proceedings of the Second ITACOSM Conference*, Edizioni Plus, 121–124. ISBN: 978-88-8492-772-9.

Bianchi, A. and Biffignandi, S. (2011), «An Index of Entrepreneurship Measure», *Proceedings of The 56th ICSB World Conference*, available on the conference website <http://www.icsb2011.org/download/18.62efe22412f41132d41800012022/397.pdf>.

Angelelli, E., **Bianchi, A.** and Ortobelli, S. (2010), «Some possible applications of bivariate Markov processes», *Proceedings of the Conference 47th EWGFM*, Prague, 25–34. ISBN: 978-80-248-2351-5.

Bianchi, A. and Biffignandi, S. (2010), «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, 409–414. ISBN: 88-901015-8-X.

Bianchi, A. and Biffignandi S. (2010), «Modelling some Entrepreneurship Factors», *Proceedings of the meeting Challenges for Analysis of the Economy, the Businesses, and Social Progress*, Unidocument Kft., Szeged, 286 - 301. ISBN: 978-963-06-9558-9.

Bianchi A., Capasso V. and Morale D. (2005), «Estimation and Prediction of a Nonlinear Model for Price Herding», *Proceedings of the meeting Modelli Complessi e Metodi Computazionali Intensivi per la Stima e la Previsione*, Bressanone 2005, Cluep Editrice – Padova, 365 - 370.

SCIENTIFIC INTERNATIONAL BOOKS

Bianchi A. (2009), «*Nonparametric Statistics for Diffusion Processes: The multidimensional case*», Lambert Academic Publishing. ISBN: 978-3-8383-1745-8.

OTHER PAPERS

Benzeval, M., **Bianchi, A.**, Brewer, M. et al. (2017), «*Understanding Society Innovation Panel Wave 9: results from methodological experiments*», editor A. Gaia, Understanding Society Working Paper Series, 2017-07.

Bianchi, A., Shlomo, N. and Schouten, B. (2013), «Population based R-Indicators for Monitoring and Improving Representativeness of Response», paper presented at the workshop «*Advances in adaptive and responsive survey design*», CBS, Heerlen (The Netherlands), 9-10 December 2013.

Bianchi A. (2008), «Problemi di Inferenza Statistica per Diffusioni Multidimensionali», *Bollettino U.M.I. La Matematica nella Società e nella Cultura*, Serie I, Vol. I, N. 2, 251–254. ISSN: 1972-7356.

Bianchi A. (2006), «Problems of Statistical Inference for Multidimensional Diffusions», *PhD thesis of the University of Milan and the University Paris*.

POSTERS

Biffignandi, S., Salvatore, C., and **Bianchi, A.** «Social indicators and big data: a case study on social indicators and active citizenship», poster presented at the New Techniques and Technologies for Statistics 2019 Conference, Brussels, March 12-14 2019.

Bianchi, A., Fabrizi, E., Salvati, N. e Tzavidis, N. «M-quantile regression: diagnostics and parametric representation of the model», poster presentato al *11th Meeting of the Classification and Data Analysis Group (CLADAG 2017)*, Milano, 13-15 Settembre 2017.

Bianchi, A., Shlomo, N. and Schouten, B. (2014) «R-indicators for monitoring the representativeness of response based on population totals», poster SAS.

Bianchi, A. and Biffignandi, S. (2015) «Administrative data for the redesign of surveys and reorganization of the data collection process», poster presented at the *Journal of Official Statistics 30th Anniversary Conference*, Stockholm, 10-12 June 2015.

SUBMITTED ARTICLES

- Bianchi, A.** and Biffignandi, S. «Characteristics of respondents using different devices in a mixed-device online panel survey», submitted to *Journal of the Royal Statistical Society – Series A*.
- Bergamelli, M., **Bianchi, A.**, Khalaf, L. and Urga, G. «Weak Exogeneity and Stability Tests», submitted to *Oxford Bulletin of Economics and Statistics*.
- Bianchi, A.**, Ray, D.M. and Biffignandi, S. «Simpson's Paradox and the promise and pitfalls of analyzing employment growth», revise/submit in *Italian Journal of Regional Studies*.
- Murray, A., Ushakova, A., **Bianchi, A.**, Booth, T. e Lynn, P. «Dynamic predictors of attrition in Understanding Society: a large 9-wave population-representative study», submitted to *Sociological Methods & Research*.
- Bianchi, A.** and Biffignandi, S. «Quality of life: does telework play a role?», submitted to *Applied Research in Quality of Life*.

ARTICLES IN PREPARATION

- Bianchi, A.**, Biffignandi, S., Lenau, S. and Münnich, R., «Bias Corrections for Non Probability Samples».
- Bianchi, A.**, Dufour, J.M., Khalaf, L. and Urga, G. «Monte Carlo combined tests with nuisance parameters».
- Bianchi, A.**, Dufour, J.M., Khalaf, L. and Urga, G. «Monte Carlo tests with non-identifiable nuisance parameters».
- Lynn, P., **Bianchi, A.** and Gaia, A. «The impact of the timing of mailing on response rate and response speed».
- Lynn, P., **Bianchi, A.** e Gaia, A. «Targeted day of mailing».
- Bianchi, A.**, Shlomo, N. and Schouten, B., «An EM approach for population-based representativity indicators».
- Bianchi, A.** and Biffignandi S. «Integrating a refreshment sample in a longitudinal survey: effects of different weighting methods over four waves».
- Bianchi, A.** «R-indicators for Complex Survey Designs».
- Bianchi, A.** and Biffignandi, S. «Who are teleworkers? An analysis exploring characteristics of teleworkers categories in Europe».

PRESENTATIONS/TALKS

INVITED TALKS

- SIS 2019 – «*Smart Statistics for Smart Applications*», Università Cattolica del Sacro Cuore, Milan, 18-21 June 2019, entitled «Social media data for social indicators: assessing the quality through case studies», in the solicited invited session «Smart survey methods and applications».
- Conference celebrating Statistics Day 2017 «*Social Statistics in and for a changing Europe*», Vien, 2 October 2017, entitled «Implementing Innovative Survey Designs».
- ITACOSM 2017 – 5th Italian Conference on Survey Methodology, Bologna, 14-16 June 2017, entitled «Adaptive Survey Design with (web) mode as a design feature», in the specialized invited session «Adaptive sample designs».
- CLADAG 2015 – 10th Meeting of the Classification and Data Analysis Group, Santa Margherita di Pula (Italy), 8-10 Ottobre 2015, titolo «M-quantile regression: diagnostics and parametric representation of the model», nella sessione sollecitata «Advances in quantile regression».
- ITACOSM 2013 - 3rd Italian Conference on Survey Methodology, Milano, 26-28 giugno 2013, dal titolo «Responsive Design for Panel Data», nella sessione invitata «Web Surveys and Web Panels».

OTHER TALKS

2019

- ITSEW 2019 – International Total Survey Error Workshop «*Integration of surveys and alternative data sources*», University of Bergamo, Bergamo, 10-12 June 2019, entitled «Social media data for social indicators: assessing the quality through case studies».
- LVI Riunione Scientifica SIEDS «*Benessere e territorio: metodi e strategie*», Ascoli Piceno, 23-24 May 2019, entitled «Work-life balance and gender differences in Europe».

2018

- Seminario presso BergamoScienza, Bergamo, 30 maggio 2018, titolo «Cosa sono I Big Data?».
- LV Riunione Scientifica SIEDS, Varese, 24-25 Maggio 2018, titolo «Telework and quality of life».

2017

- 5th Workshop Advances in adaptive and responsive survey design, University of Michigan (Ann Arbor), 6-7 Novembre 2017, title «The impact of day of mailing on web survey response rate and response speed».
- ITSEW 2017 – International Total Survey Error Workshop, Nurnberg, 12-14 June 2017, entitled «Integrating a refreshment sample in a longitudinal panel».
- CAMP 2017 – New York Camp Econometrics XII, Lake Placid (US), 7-9 April 2017 entitled «

- Monte Carlo Tests with Non-Identifiable Parameters, with Application to Simultaneous Equations».
- 2016** *NTTS 2017 - New Techniques and Technologies for Statistics*, Bruxelles, 14-16 March 2017, entitled «Integrating a refreshment sample in a longitudinal survey: effects of different weighting methods over four waves».
- 5th International Conference in memory of Carlo Giannini*, Bergamo, 25-26 November 2016, entitled «Monte Carlo Tests with non-identifiable parameters, with application to simultaneous equations».
- ICES 2016 – Fifth International Conference on Establishment Surveys*, Geneve, 20-23 June 2016, entitled «Redesigning surveys and the data collection process using administrative data».
- SIS 2016 - 48th Scientific Meeting of the Italian Statistical Society*, University Of Salerno, Salerno 8-10 June 2016, entitled «Multifactor Partitioning: an analysis of employment and firm size».
- Workshop on Recent Advances in Quantile and M-quantile Regression*, Pisa, 14-15 July 2016, entitled «Estimation and Testing in M-quantile Regression with application to small area estimation».
- 18th OxMetrics Conference*, London, 12-13 September 2016, entitled «Combining p-values to test for multiple structural breaks in cointegrated regressions».
- 2015** *4th Workshop Advances in adaptive and responsive survey design, University of Manchester (UK)*, 9-10 November 2015, entitled «Targeted letters in longitudinal surveys».
- CLADAG 2015 – 10th Meeting of the Classification and Data Analysis Group*, Santa Margherita di Pula (Italy), 8-10 October 2015, entitled «M-quantile regression: diagnostics and parametric representation of the model».
- TSE 2015 – International Total Survey Error Conference*, Baltimora (US), September 19-22, 2015, entitled «Mixed mode design with web component in longitudinal studies».
- Understanding Society’s Scientific Conference 2015, University of Essex, Colchester*, 21-23 luglio 2015, entitled «The representativity of a panel for the general population».
- ITACOSM 2015 - 4th Italian Conference on Survey Methodology, Roma*, 24-26 Giugno 2015, entitled «Web-respondent-driven sampling».
- Webdatanet Conference 2015*, Salamanca, 26-28 Maggio 2015, entitled «Moving to the web: data quality and other issues».
- NTTS 2015 - New Techniques and Technologies for Statistics, Brussels*, 9-13 March 2015, title «Targeted design in surveys and longitudinal studies».
- 2014** *ISM 2014 - 7th Internet Survey Methodology Workshop, Bolzano*, 1-3 December 2014, title «Web-respondent-driven sampling».
- EAM 2014 - VI European Congress of Methodology, Utrecht*, 23-25 July 2014, title «The process of representativity of a Mixed-Mode Panel Survey».
- 2013** *3rd Workshop Advances in adaptive and responsive survey design, CBS, Heerlen (The Netherlands)*, 9-10 December 2013, title «Population based R-Indicators for Monitoring and Improving Representativeness of Response».
- ESRA 2013 European Survey Research Association, Ljubljana* 15-19 July 2013, title «Developing weights for wage-related probability and non-probability web surveys – an exploration for the Netherlands».
- ESRA 2013 - European Survey Research Association, Ljubljana* 15-19 July 2013, title «Investigating Mode Effect and possible Adjustments in Mixed-Mode Surveys».
- ITACOSM 2013 - 3rd Italian Conference on Survey Methodology, Milan*, 26-28 June 2013, title «Responsive Design for Panel Data».
- AAPOR 2013 - 68th Annual Conference of the American Association for Public Opinion Research, Boston (US)*, 16-19 May 2013, title «Responsive design for web panel data collection».
- GOR 2013 - General Online Research Conference, Mannheim (Germany)*, 4-6 March 2013, title «Innovation in Data Collection: the Responsive Design Approach».
- 2012** *Conference «Innovation in the food and beverages sector» - University of Bergamo*, 17 December 2012, entitled «Survey on innovation in businesses and consumptions: some results».
- ISM 2012 - 6th workshop Internet Survey Methodology, Ljubljana (Slovenia)*, 14-16 November 2012, title «Challenges and pitfalls of measuring wages via web surveys - some explorations»
- Seminar at the University of Bergamo*, 19 October 2012, title «Challenges and pitfalls of measuring wages via web surveys – some consolidations for The Netherlands»
- SIS 2012 - 46th Scientific Meeting of the Italian Statistical Society, University La Sapienza Rome*, 20-22 June 2012
- Seminar at the Amsterdam Institute for Advanced Labour Studies, Amsterdam*, 14 June 2012, title «Challenges and pitfalls of measuring wages via web surveys – some explorations»
- MMLV 2012 - Methods and Models for Latent Variables (MMLV), Naples*, 17-19 May 2012, title «Measuring and analyzing performance in longitudinal data».

- 2011** CLADAG 2011 - 8th Scientific Meeting of the Classification and Data Analysis Group of the Italian Statistical Society (CLADAG), Pavia (Italy), 7-9 September 2011, title «Web panel representativeness and uses».
- ESRA 2011 - European Survey Research Association, Lausanne 18-22 July 2011, title «Applying Maximum Entropy weighting to on line panel data collection».
- ITACOSM 2011 - Italian Conference on Survey Methodology, Pisa (Italy), 27-29 June 2011, title «Sampling new businesses and analysing their performances».
- ICSB 2011 - The 56th ICSB World Conference, Stockholm (Sweden) 15-18 June 2011, title «An Index of Entrepreneurship Measure».
- 2010** Kauffman Firm Survey Workshop, Lausanne, 9 June 2010, dal title «Entrepreneurship factors».
- 2009** Conference *Challenges for Analysis of the Economy, the Businesses, and Social Progress*, 19-21 November 2009 Szeghed (Hungary), title «Modeling some Entrepreneurship factors».
- 2005** *Modelli complessi e Metodi Computazionali intensivi per la Stima e la Previsione*, 15-17 September 2005 Bressanone, title «Estimation and Prediction of a Nonlinear Model for Price Herding».

OTHER SCIENTIFIC ACTIVITIES
REVIEWING ACTIVITIES

Referee for the journals:

International Statistical review (ISR), Journal of the Royal Statistical Society – Series A (JRSS-SA), Journal of Official Statistics (JOS), Survey Methodology (SMJ), Statistical Methods & Applications (SMA), Field Methods (FM), Papers in Regional Science (PIRS), Empirical Economics (EE), Longitudinal and Life Course Studies (LLCS), Communications in Statistics – Theory and Methods, Austrian Journal of Statistics (AJS), Annals of the Institute of Statistical Mathematics (AISM)

Reviewer per American Mathematical Society (AMS)

ORGANIZATION
WORKSHOPS/SEMINARS

Organizer and chair of the invited session S2G group «The impact of Covid-19 on survey methods» in the 50° Scientific Meeting of the Italian Statistical Society, that will be held in June 2021.

Member of the Organizing Committee of the *International Total Survey Error Workshop (ITSEW 2020)*, that will be held at the University of Manchester.

Organizer (co-chair) and member of the Program Committee of *International Total Survey Error Workshop (ITSEW 2019)*, held at the University of Bergamo, 10-12 June 2019.

Organizer and chair of the invited session «Machine learning for socio-economic surveys» at the 6th Italian Conference on Survey Methodology (ITACOSM2019), held in Florence, 5-7 June 2019.

Member of the Program Committee of the 6th Italian Conference on Survey Methodology (ITACOSM2019), held in Florence, 5-7 June 2019.

Member of the Program Committee of the *XLIX Scientific Meeting of the Italian Statistical Society*, held in Palermo, 20-22 June 2018.

Member of the Organizing Committee of the *International Total Survey Error Workshop (ITSEW 2018)*, held at Duke University, Durham (US), 4-6 June 2018.

Member of the Local Organizing Committee of the *11th Meeting of the Classification and Data Analysis Group (CLADAG 2017)*, held at the Università di Milano Bicocca, 13-15 September 2017.

Member of the organizing committee of the workshop «Webdatametrics I: the visual and the hidden in web-based data collection: images, perception, paradata and non-reactive data», held on 22 and 23 January 2013 at the University of Bergamo.

Organizzatrice del Seminario «Exchange rates and commodity process: measuring causality», tenuto da Jean-Marie Dufour presso il Dipartimento di Scienze Aziendali, Economiche e Metodi Quantitativi dell'Università degli Studi di Bergamo, 16 Dicembre 2015.

OTHER

Chair at the following international conferences:

ITSEW 2019 - International Total Survey Error Workshop, Bergamo, 10-12 June 2019, chair of the session «Nonresponse modeling».

ITSEW 2017 - International Total Survey Error Workshop, Nurnberg, 12-14 June 2017, chair of the session «Issues in Coverage and Sampling 1».

NTTS 2017 - New Techniques and Technologies for Statistics, Bruxelles, 14-16 March 2017, chair of the session «Treatment of revisions and nonresponse».

5th International Conference in memory of Carlo Giannini, Bergamo, 25-26 November 2016, chair of the session «Identification and cointegration».

7th Internet Survey Methodology Workshop (ISM), Bozen, 1-3 December 2014, chair of the session «Applications of online surveys; Weighting».

MEMBERSHIPS

Since 2018

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

Since 1/7/2016

Member of the of the Gruppo di Coordinamento (Metodologie per le indagini campionarie – Survey Sampling Group, S2G) of the Italian Statistical Society.

2012-2015

WEBDATANET member (web-based data-collection – methodological challenges, solutions and implementations) as MC substitute member.

Member of the Kauffman Firm Survey Data Enclave

Member of SIS, IASS, ECBS, ESRA, CLADAG

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

Italian

English

- Reading skills Excellent
- Writing skills Excellent
- Verbal skills Excellent

French

- Reading skills Excellent
- Writing skills Good
- Verbal skills Excellent

TECHNICAL SKILLS AND COMPETENCES

SOFTWARE SKILLS :

OPERATING SYSTEMS: WINDOWS, LINUX

STATISTICAL SOFTWARE: SAS, R, STATA, WESVAR, SPSS, OXMETRICS, SURVEYMONKEY

PROGRAMMING LANGUAGES: MATLAB, R

OTHERS: OFFICE, LATEX, MAPINFO

DRIVING LICENSE

Car

Date 31st January 2021