

Silvia Bianconcini

Department of Statistical Sciences – University of Bologna
Via delle Belle Arti, 41, Bologna 40126, Italy
Phone: 0039-051-2098183 | e-mail: silvia.bianconcini@unibo.it
website: <https://www.unibo.it/sitoweb/silvia.bianconcini/en>

Positions

Full Professor of Statistics Oct 2024 – present
Department of Statistical Sciences - University of Bologna

Associate Professor of Statistics Dec 2014 – Sept 2024
Department of Statistical Sciences - University of Bologna

Assistant Professor of Statistics Nov 2008 – Nov 2014
Department of Statistical Sciences - University of Bologna

Research Fellowship 2006 – 2008
Department of Statistical Sciences - University of Bologna

- ✓ Research project: *Item response theory models for the measurement of cognitive abilities: methodological for multidimensional and sequential adaptive computer testing.*
- ✓ Supervisor: Prof.ssa Paola Monari.

Education

Ph.D. in Statistical Methodology for Scientific Research March 2006
Department of Statistical Sciences - University of Bologna

- ✓ Thesis: *Trend-Cycle Estimation in Reproducing Kernel Hilbert Spaces.*
- ✓ Supervisor: Prof.ssa Estela Bee Dagum. External supervisor: Prof. Hamparsum Bozdogan.

Master degree (Laurea V.O.) in Statistics and Economics March 2002
Faculty of Statistical Sciences - University of Bologna

- ✓ Thesis: *Approssimazione Lineare di Filtri per la Stima del Trend-Ciclo.*
- ✓ Advisor: Prof.ssa Estela Bee Dagum. Mark: 110/110 *cum laude*.

Career Breaks

- ✓ 2017: Maternity leave (5 months).

Visiting Positions

Visiting researcher 2009
*Time Series Research and Analysis Centre - Business Survey Methodology Division
Statistics Canada.*

Visiting scholar 2004-2005
*Department of Statistics, University of Tennessee, Knoxville (US).
Supervisor: Prof. Hamparsum Bozdogan.*

Institutional responsibilities (selected)

Director. Board of Directors. <i>UNA Europa alliance.</i>	2022 – present
Delegate for UNA Europa. <i>Vice-Rectorship for International Relations. University of Bologna</i>	2021 – present
Member of the advisory board <i>Ph.D. program in Future Earth, Climate Change, and Societal Changes.</i> <i>Interdepartmental Ph.D. program. University of Bologna.</i>	2019 - present
Coordinator of the “Progetto Lauree Scientifiche - PLS” - Statistics. <i>Department of Statistical Sciences. University of Bologna.</i>	2021
Delegate at the Guidance (intake, in itinere, outgoing). <i>Department of Statistical Sciences. University of Bologna.</i>	2015 –2021

Areas of specialization

Time series and longitudinal data analysis. Statistical inference in latent variable models for mixed data. More specifically, the main topics include: seasonal adjustment methods, nonparametric methods for estimating unobserved components - such as signal extraction and real-time trend estimation; nonlinear latent growth models, autoregressive latent trajectory models, and their multivariate extensions; and numerical techniques for approximate likelihood inference in latent variable models.

Publications

Books

1. Bee Dagum, E. and Bianconcini, S. (2016). *Seasonal adjustment methods and real time trend-cycle estimation*. Statistics for Social and Behavioral Sciences. Springer International Publishing. (E-book ISBN: 978-3-319-31822-6. Hardcover ISBN: 978-3-319-31820-2).

2016 Ziegel Prize winner: <http://dx.doi.org/10.1080/00401706.2017.1369780>

Papers in scientific journals

2. Bianconcini, S. and Bollen, K.A. (2025). Implications of alternative parameterizations in structural equation models for longitudinal categorical variables. *Psychometrika*, 90 (2), 554-587.
3. Marchi, A., Bertaccini, A., Fan, W., Zuffi, G., Sacchetti, S., Nanetti, M., Lee, C., Agostini, A., Lucchini, D., Bianconcini, S., Zaccanti, F., Goffredo, S. and Caroselli, E. (2023). Refinement of the NISECI ecological index reference conditions for Italian freshwater fish communities in the eastern Emilia-Romagna region. *Ecological Indicators*, 155, 111070.
4. Bee Dagum, E. and Bianconcini, S. (2023). Monitoring the direction of the short-term trend of economic indicators. *Econometric Reviews*, 42(5), 421–440.
5. Bianconcini, S., Mignani, S. and Mingozi, J. (2023). Assessing maths learning gaps using Italian longitudinal data. *Statistical Methods & Applications*, 32, 911–930.
6. Bianconcini, S. and Cagnone, S. (2022). The dimension-wise quadrature estimation of dynamic latent variable models for count data. *Computational Statistics and Data Analysis*, 177, 107585.

7. Bianconcini, S. and Cagnone, S. (2021). Dynamic latent variable models for the analysis of cognitive abilities in the elderly population. *Statistics in Medicine*, 40, 4410–4429.
8. Mura, M., Longo, M., Toschi, L., Zanni, S., Visani, F. and Bianconcini, S. (2021). The role of geographical scales in sustainability transitions: an empirical investigation of the European industrial context. *Ecological Economics*, 183, 106968 (1–15).
9. Mura, M., Longo, M., Toschi, L., Zanni, S., Visani, F. and Bianconcini, S. (2021). Industrial carbon emission intensity: a comprehensive dataset of European regions. *Data in Brief*, 36, 107046 (1–4).
10. Mura, M., Longo, M., Toschi, L., Zanni, S., Visani, F. and Bianconcini, S. (2021). Multilevel-growth modeling for the study of sustainability transitions. *MethodsX*, 8, 101359 (1–8).
11. Lombardini, H. and Bianconcini, S. (2019). Corpus and dictionary: A statistical representation – Corpus lexico y diccionario: La estricta representatividad estadística. *Orillas*, 8, 675–693.
12. Bianconcini, S. and Bollen, K.A. (2018). The Latent Variable – Autoregressive Latent Trajectory (LV-ALT) model: a general framework for longitudinal data analysis. *Structural Equation Modeling: A Multidisciplinary Journal*, 25(5), 791–808.
13. Bianconcini, S., Cagnone, S. and Rizopoulos, D. (2017). Approximate likelihood inference in generalized linear latent variable models based on dimension-wise quadrature. *Electronic Journal of Statistics*, 11(2), 4404–4423.
14. Bee Dagum, E. and Bianconcini, S. (2015). A new set of asymmetric filters for tracking the short-term trend in real-time. *The Annals of Applied Statistics*, 9(3), 1433–1458.
15. Bianconcini, S. (2014). Comments on “Latent Markov models: a review of a general framework for the analysis of longitudinal data with covariates”. *TEST*, 23(3), 466–468.
16. Bianconcini, S. (2014). Asymptotic properties of adaptive maximum likelihood estimators in latent variable models. *Bernoulli*, 20(3), 1507–1531.
17. Bianconcini, S. and Cagnone, S. (2014). The role of posterior densities in latent variable models for ordinal data. *Communications in Statistics – Theory and Methods*, 43(4), 681–692.
18. Bee Dagum, E. and Bianconcini, S. (2013). A unified probabilistic view of nonparametric predictors via reproducing kernel Hilbert spaces. *Econometric Reviews*, 32(7), 848–867.
19. Bianconcini, S. and Cagnone, S. (2012). Multivariate latent growth models for mixed data with covariate effects. *Communications in Statistics – Theory and Methods*, 41(16–17), 3079–3093.
20. Bianconcini, S. and Cagnone, S. (2012). Estimation of generalized linear latent variable models via fully exponential Laplace approximation. *Journal of Multivariate Analysis*, 112, 183–193.
21. Bianconcini, S. and Cagnone, S. (2012). A general multivariate latent growth model with applications to student achievement. *Journal of Educational and Behavioral Statistics*, 37(2), 339–364.
22. Alexandrov, T., Bianconcini, S., Bee Dagum, E., Maass, P. and McElroy, T. (2012). A review of some modern approaches to the problem of trend extraction. *Econometric Reviews*, 31(6), 593–624.
23. Bianconcini, S. (2012). Nonlinear and quasi-simplex patterns in latent growth models. *Multivariate Behavioral Research*, 47(1), 88–114.
24. Bianconcini, S. and Quenneville, B. (2010). Real-time analysis based on reproducing kernel Henderson filters. *Estudios de Economía Aplicada*, 28-3, 1–22.
25. Bee Dagum, E. and Bianconcini, S. (2008). The Henderson smoother in reproducing kernel Hilbert space. *Journal of Business and Economic Statistics*, 26(4), 536–545.

26. Bianconcini, S., Cagnone, S., Mignani, S. and Monari, P. (2007). A latent curve analysis of unobserved heterogeneity in University student achievements. *Statistica*, 1, 40–56.
27. Mignani, S., Monari, P., Bianconcini, S. and Cagnone, S. (2007). La riuscita del percorso universitario: un’analisi longitudinale sugli studenti dell’Ateneo di Bologna. *Rivista di Economia e Statistica del Territorio*, 3, 25–38.

Papers on volumes

28. Bianconcini S. and Cagnone S. (2026). Multivariate longitudinal data analyses. In *The Cambridge Handbook of Research Methods and Statistics for the Social and Behavioral Sciences (Vol 3: Data Analysis)*. Nichols A.L. and Edlund J. (eds.). Cambridge University Press. Forthcoming.
29. Bianconcini S., Cagnone S. and Guastadisegni L. (2025). A comparison of estimation methods in latent variable models for binary panel data. In *Advances in Supervised and Unsupervised Statistical Data Analysis. Studies in Classification, Data Analysis, and Knowledge Organization*. De Roover K. et al. (eds.). Springer Nature. Switzerland AG. pp. 1-11. Forthcoming.
30. Bianconcini S. and Cagnone S. (2025). Estimation issues in multivariate panel data. In *Statistical Models and Learning Methods for Complex Data. Studies in Classification, Data Analysis, and Knowledge Organization*. Giuseppe Giordano et al. (eds.). Springer Nature. Switzerland AG. 1 – 8.
31. Bianconcini, S. and Cagnone, S. (2021). A multilevel latent variable model for multidimensional longitudinal data. In *Data Analysis and Classification: from the exploratory to the confirmatory approach*. Marie Wiberg, Dylan Molenaar, Jorge Gonzalez, Ulf Bockenholt, and Jee-Seon Kim. Quantitative Psychology. Springer Proceedings in Mathematics and Statistics. 353, 9–21.
32. Bianconcini, S. and Cagnone, S. (2010). A multilevel latent variable model for multidimensional longitudinal data. In *Studies in Classification, Data Analysis, and Knowledge Organization*. Springer-Verlag: Berlin Heidelberg. 329–336.
33. Bee Dagum, E., Bianconcini, S. and Monari, P. (2009). Nonlinearity in the analysis of longitudinal data. In *Statistical methods for the evaluation of educational services and quality of products*. Physica-Verlag: Berlin, 47–60.
34. Bee Dagum, E. and Bianconcini, S. (2006). Local polynomial trend-cycle predictors in reproducing kernel Hilbert spaces for current economic analysis. *Anales de Economía Aplicada*. Delta publicaciones: Madrid. 1–22.

Proceedings

35. Bianconcini, S. and Cagnone, S. (2023). Estimation issues in multivariate panel data. In *Cladag 2023 book of abstracts and short papers*. Pearson. 74–77.
36. Bianconcini, S. and Cagnone, S. (2021). Comparison between different likelihood-based estimation methods in latent variable models for categorical data. In *Book of Short Papers SIS 2021*. Pearson. 151–156.
37. Bee Dagum, E. and Bianconcini, S. (2019). Trend-cycle filters comparison for real-time macroeconomic data. In *JSM Proceedings, Business and Economic Statistics Section*. ASA. 1–11.
38. Bee Dagum, E. and Bianconcini, S. (2017). A comparison of new developments of the Henderson filters for real-time trend-cycle estimation. In *JSM Proceedings, Business and Economic Statistics Section*. ASA. 1402–1412.

39. Bee Dagum, E. and Bianconcini, S. (2016). A New Set of Asymmetric Filters For Real-Time Trend-Cycle Estimation. In *JSM Proceedings, Business and Economic Statistics Section*. ASA. 2616–2626.
40. Bee Dagum, E. and Bianconcini, S. (2014). The effects of seasonal adjustment methods in nonparametric trend-cycle prediction. In *JSM Proceedings, Business and Economic Statistics Section*. ASA. 1049–1059.
41. Bee Dagum, E. and Bianconcini, S. (2013). Real-time detection of trend-cycle turning points. In *Seventh International Workshop on Simulation - Book of Abstracts*. University of Bologna. Quaderni di Dipartimento - Serie Ricerche 2013, n. 3. 120–121.
42. Bee Dagum, E. and Bianconcini, S. (2012). Reducing revisions in real-time trend-cycle estimation. In *JSM Proceedings, Section on Government Statistics*. ASA. 1830–1841.
43. Bianconcini, S., Cagnone, S., Rizopoulos, D. (2012). A Dimension Reduction Method for Approximating Integrals in Latent Variable Models for Binary Data. In *Proceedings of the XLVI Italian Statistical Society Scientific Meeting*. Padova: Cleup. 1–4.
44. Bianconcini, S. (2012). Asymptotic properties of adaptive Gauss-Hermite-based estimators in latent variable models. *Quaderni di Statistica* – Special issue for International conference on “Methods and Models for Latent Variables”. 14, 41–44.
45. Bianconcini, S., Cagnone, S. and Rizopoulos, D. (2012). Approximate likelihood inference in latent variable models for categorical data. *Quaderni di Statistica* – Special issue for International conference on “Methods and Models for Latent Variables”. 14, 45–49.
46. Bianconcini, S. and Cagnone, S. (2011). Likelihood inference in latent variable models for ordinal data based on different approximation methods. *SCo 2011 Proceedings*. 1–6.
47. Bianconcini, S., Cagnone, S. and Monari, P. (2010). Covariate effects in multivariate latent growth models for the analysis of undergraduate student performances. *Joint meeting GfKI – CLADAG 2010. Book of abstracts*. 337–339.
48. Bianconcini, S., Cagnone, S. and Monari, P. (2010). Multivariate latent growth models for mixed data with covariate effects on the manifest and latent variables. *XLV meeting of the Italian Statistical Society, Satellite conference on “Statistics for complex problems: the multivariate permutation approach and related topics”*. Volume of abstracts. Cleup. 80–82.
49. Bee Dagum, E. and Bianconcini, S. (2009). Equivalent reproducing kernels for smoothing spline predictors. In *JSM Proceedings, Business and Economic Statistics Section*. ASA. 537–545.
50. Bee Dagum, E. and Bianconcini, S. (2009). Recent developments in short-term trend prediction for real-time analysis. In *JSM Proceedings, Business and Economic Statistics Section*. ASA. 78–92.
51. Bianconcini, S. and Mignani, S. (2009). Relating nonlinearity to nonstationarity in latent growth models. *Proceedings of the 6th St. Petersburg workshop on simulation*. 482–487.
52. Bianconcini, S. and Mignani, S. (2008). Latent variable models for longitudinal data in educational studies. *Atti della XLIV riunione scientifica della Società Italiana di Statistica*. CLEUP ed. 225–232.
53. Bianconcini, S. and Cagnone, S. (2008). Multivariate latent growth models for continuous repeated measures. *Book of short papers, SFC-CLADAG 2008*. Edizioni Scientifiche Italiane. 181–184.
54. Bianconcini, S., Cagnone, S., Mignani, S. and Monari, P. (2007). Student mobility and academic achievement: a temporal analysis for Bologna University. *Atti del Convegno “Valutazione e Customer Satisfaction per la Qualità dei Servizi”*. Università Tor Vergata. pp. 39–42.

55. Bianconcini, S., Cagnone, S., Mignani, S. and Monari, P. (2007). A latent curve analysis for evaluating student achievement in the University of Bologna. *Proceedings of the 56th session of the ISI*. 1–4.
56. Bianconcini, S. and Cagnone, S. (2007). A multilevel latent variable model for multidimensional and longitudinal data. *Book of short papers, CLADAG 2007*. Eum 2013 Edizioni Universita di Macerata. 483–486.

Working papers and other

57. Bee Dagum, E. and Bianconcini, S. (2008). A Unified Probabilistic View of Nonparametric Predictors via Reproducing Kernel Hilbert Spaces. Quaderni di Dipartimento di Scienze Statistiche “Paolo Fortunati”. Serie Ricerche 2008. 6. 1–26.
58. Alexandrov, T., Bianconcini, S., Bee Dagum, E., Maass, P. and McElroy, T. (2008). A review of some modern approaches to the problem of trend extraction. SRD Research Report No. RRS2008-3, U.S. Census Bureau.
59. Bianconcini, S. (2008). A reproducing kernel perspective of smoothing spline estimators. Dipartimento di Scienze Statistiche “Paolo Fortunati”. Serie Ricerche 2008. 3. 1–43.
60. Bee Dagum, E. and Bianconcini, S. (2006). A theoretical comparison between classical and reproducing kernel Hilbert space Henderson predictors. Euroindicators Working Paper. Catalogue number: KS-DT-06-003-EN-N. Eurostat. Luxembourg.
61. Bianconcini, S. (2006). Trend-cycle estimation in reproducing kernel Hilbert spaces. Ph.D. Thesis. Department of Statistics “Paolo Fortunati”, University of Bologna. 1–147.

Editorial and reviewer activities

- ✓ 2022–2028: Elected Member of the Editorial Council of *Psychometrika*.
- ✓ Reviewer for *Mathematical Reviews*.
- ✓ Referee for the following journals: *Advances in Data Analysis and Classification*, *Bernoulli*, *Biometrika*, *British Journal of Mathematical and Statistical Psychology*, *Communications in Statistics – Theory and Methods*, *Computational Statistics*, *Computational Statistics and Data Analysis*, *Econometric Reviews*, *Economics Bulletin*, *Empirical Economics*, *Environmetrics*, *Journal of the American Statistical Association*, *Journal of Agricultural, Biological, and Environmental Statistics*, *Journal of Business and Economic Statistics*, *Journal of Multivariate Analysis*, *Journal of Official Statistics*, *Journal of Statistical Software*, *Metron*, *Psychometrika*, *Statistica*, *Statistical Methods and Applications*, *Statistical Methods in Medical Research*, *Statistical Modeling*, *Statistics and Computing*, *Structural Equation Modeling: a Multidisciplinary Journal*.
- ✓ 2021 - 2022: External Reviewer for the New Frontiers in Research Fund – Exploration 2021 & 2022 competition (NFRFE 2022), Canada.
- ✓ Reviewer panel member of the VQR 2015–2019, Italy.

Other activities

Participation to international societies

- ✓ 2015–: Member of the ERCIM working group on Computational and Methodological Statistics.
- ✓ 2013: Member of the Bernoulli Society.

- ✓ 2008–: Member of the Italian Statistical Society.
- ✓ 2008–: Member of the Psychometric Society.
- ✓ 2006–2024: Member of the American Statistical Association.
- ✓ 2006–2024: Member of the Royal Statistical Society.

Research grants and awards

- ✓ 2025-2027: PRIN 2022 scorrimento : “Latent variable models and dimensionality reduction methods for complex data”. National coordinator: Prof. Paolo Giordani. Local coordinator: Prof. Cinzia Viroli.
- ✓ 2017: Beneficiary of the Fund for Research-Based Activities (FFABR) assigned by the National Evaluation Agency of the University system and the Research (ANVUR), 2017.
- ✓ 2016: Ziegel Award (American Statistical Association) for the book “Seasonal Adjustment Methods and Trend-Cycle Estimation” (<http://dx.doi.org/10.1080/00401706.2017.1369780>).
- ✓ FIRB 2012–2016: “Mixture and latent variable models for causal inference and analysis of socio-economic data”. National coordinator: Prof. Francesco Bartolucci. Local coordinator: Prof. Silvia Cagnone.
- ✓ European project 2011–2012: “EATWELL. Interventions to promote healthy eating habits: evaluation and recommendations”. UNIBO team leader: Prof. Mario Mazzocchi. Website: <http://www.eatwellproject.eu/en/>.
- ✓ 2009: Marco Polo scholarship for a period of visiting research at Statistics Canada. Ottawa, Canada.
- ✓ PRIN 2008–2010: “Latent structure analysis: new boundaries in statistical methods and models”. National and local coordinator: Prof. Paola Monari.
- ✓ PRIN 2006–2008: “Statistical methods and models for the evaluation of educational processes”. National and local coordinator: Prof. Paola Monari.
- ✓ PRIN 2004–2006: “Parametric and nonparametric estimation and forecasting of time series conditional moment dynamics”. National and local coordinator: Prof. Estela Bee Dagum.
- ✓ PRIN 2002–2004: “Statistical inference on the stochastic and deterministic dynamic of observed time series”. National and local coordinator: Prof. Estela Bee Dagum.
- ✓ 2004: Marco Polo scholarship for a period of visiting research at the University of Knoxville – Department of Statistics. Tennessee, US.

Conferences, invited relations, seminars

Organization

- ✓ 15–18 July 2025: Annual Meeting of the Psychometric Society. Minneapolis, Minnesota, US (Scientific Committee).
- ✓ 11–15 July 2022: Annual Meeting of the Psychometric Society. Bologna, Italy (Scientific and Organizing Committee).
- ✓ 9–11 Sept 2021: (Virtual) Scientific Meeting of the Classification and Data Analysis Group. Firenze, Italy (Scientific Committee).
- ✓ 21–23 July 2021: (Virtual) Annual Meeting of the Psychometric Society. College Park, Maryland, US (Scientific Committee).

- ✓ 9–13 July 2018: Organized Symposium on Recent Advances in the Analysis of Complex Data Structures. Annual Meeting of the Psychometric Society, IMPS 2018. New York, US.
- ✓ 06–08 July 2015: Conference of the International Federation of Classification Societies. Bologna, Italy (Organizing Committee).
- ✓ 12–14 Sept 2012: International workshop on Structural equation modeling and latent variable models. Bologna, Italy (Organizing Committee).
- ✓ 17–19 May 2012: Final conference PRIN 2008 on Methods and models for latent variables. Naples, Italy (Organizing Committee).
- ✓ 25–29 May 2009: Final workshop PRIN 2006 on Statistical methods and models for the evaluation of the educational processes. Rimini, Italy (Executive Committee).
- ✓ 14–16 June 2007: Final workshop PRIN 2004 on Parametric and Nonparametric Estimation and Forecasting of Conditional Moment Dynamics. Villa Mondragone, Roma, Italy (Executive Committee).
- ✓ 9–11 June 2005: Final workshop COFIN 2002 on *Inferenza statistica sulla dinamica stocastica e deterministica di serie storiche osservate*. Bressanone, Italy (Executive Committee).

Invited seminars and talks

1. Bianconcini, S. and Bollen, K.A. *Implications of alternative parameterizations in structural equation models for longitudinal categorical variables*. Workshop on latent variable models for complex data. Udine, 4 June 2024.
2. Bianconcini, S. and Cagnone, S. *Estimation issues in multivariate panel data*. CLADAG 2023. Salerno, 11–13 September 2023.
3. Bianconcini, S. and Cagnone, S. *Approximate likelihood estimation of dynamic latent variable models for count data*. 24th International Conference on Computational Statistics (COMPSTAT 2022). Bologna, 23–26 August 2022.
4. Bianconcini, S. and Cagnone, S. *Comparison between different estimation methods in dynamic latent variable models for categorical data*. (Virtual) Meeting of the Psychometric Society. 19–23 July 2021.
5. Bianconcini, S. and Cagnone, S. *Comparison between different likelihood-based estimation methods in latent variable models for categorical data*. (Virtual) Meeting of the Italian Statistical Society. 21–25 June 2021.
6. Bianconcini, S. and Cagnone, S. *Dimension-wise likelihood estimation of latent vector autoregressive models*. CFE-CMStatistics 2019. London, UK. 14–16 December 2019.
7. Bee Dagum, E. and Bianconcini, S. *Trend-cycle filters comparison for real-time macroeconomic data*. Joint Statistical Meeting of the American Statistical Association. Denver, CO. July 27 – August 1, 2019.
8. Bianconcini, S. and Cagnone, S. *Approximate inference in latent variable models based on dimension-wise quadrature*. CFE-CMStatistics 2018. Pisa, Italy. 14–16 December 2018.
9. Bee Dagum, E. and Bianconcini, S. *A comparison of new developments of the Henderson filters for real-time trend-cycle estimation*. Joint Statistical Meeting of the American Statistical Association. Baltimore, MD. July 29 – August 3, 2017.
10. Bee Dagum, E. and Bianconcini, S. *A new set of asymmetric filters for real-time trend-cycle estimation*. Joint Statistical Meeting of the American Statistical Association. Chicago, IL. July 30 – August 4, 2016.

11. Bee Dagum, E. and Bianconcini, S. *The effects of seasonal adjustment methods in nonparametric trend-cycle prediction*. Joint Statistical Meeting of the American Statistical Association. Boston, MA. 2–7 August 2014.
12. Bianconcini, S., Cagnone, S., and Rizopoulos, D. *Approximate likelihood inference in latent variable models with application to the Health and Retirement Study*. PLS2014 8th International Conference on Partial Least Squares and Related Methods. Paris, France. 26–28 May 2014.
13. Bianconcini, S. and Cagnone, S. *Approximate likelihood inference in generalized linear latent variable models*. Erasmus University Rotterdam, Center for Quantitative Methods. 27 September 2013.
14. Bee Dagum, E. and Bianconcini, S. *Real-time trend-cycle prediction via linear filters that minimize revisions and turning point detection*. Statistische Woche. Freie Universität Berlin. Berlin, Germany. 17–20 September 2013.
15. Bee Dagum, E. and Bianconcini, S. *Real-time detection of trend-cycle turning points*. Joint Statistical Meeting of the American Statistical Association. Montréal, Canada. 3–8 August 2013.
16. Bee Dagum, E. and Bianconcini, S. *Real-time detection of trend-cycle turning points*. Seventh International Workshop on Simulation. Rimini, Italy. 21–25 May 2013.
17. Bee Dagum, E. and Bianconcini, S. *Reducing Revisions in Real-Time Trend-Cycle Estimation*. Joint Statistical Meeting of the American Statistical Association. San Diego - CA, 28 July – 1 August 2012.
18. Bianconcini, S., Cagnone, S. and Rizopoulos, D. *A dimension reduction method for approximating integrals in latent variable models for binary data*. XLVI meeting of the Italian Statistical Society. Rome, 20–22 June 2012.
19. Bianconcini, S. and Cagnone, S. *Multivariate latent growth models for mixed and longitudinal data*. Faculty of Political Sciences. The University of Naples “Federico II”. 23 June 2011.
20. Bee Dagum, E. and Bianconcini, S. *Equivalent reproducing kernels for smoothing spline predictors*. Joint Statistical Meeting of the American Statistical Association. Washington D.C., 1–6 August 2009.
21. Bee Dagum, E. and Bianconcini, S. *Recent developments in short-term trend prediction for real-time analysis*. [Invited paper]. Joint Statistical Meeting of the American Statistical Association. Washington D.C., 1–6 August 2009.
22. Bianconcini, S. *Trend-cycle predictors in reproducing kernel Hilbert spaces (Part I)*. Time Series Research and Analysis Centre. Business Survey Methodology Division. Statistics Canada. 18 June 2009. Bianconcini, S. *Trend-cycle predictors in reproducing kernel Hilbert spaces (Part II)*. Time Series Research and Analysis Centre. Business Survey Methodology Division. Statistics Canada. 24 June 2009.
23. Bee Dagum, E., Bianconcini, S. and Monari, P. *A longitudinal analysis for the ranking of university performances*. Statistical Modeling for University Evaluation: an International Overview. Baia delle Zagare, Italy, 5–6 September 2008.
24. Bee Dagum, E. and Bianconcini, S. (2006). *A theoretical comparison between classical and reproducing kernel Hilbert space Henderson predictors*. Conference on Seasonality, Seasonal Adjustment and Their Implications for Short-Term Analysis and Forecasting. Eurostat, Luxembourg, 10–12 May 2006.

Teaching

PhD courses

- ✓ Statistical methods for climate change analysis. Ph.D. in Future Earth, Climate Change and Societal Changes. Interdepartmental Ph.D. course. University of Bologna.
- ✓ Elements of statistical learning. Ph.D. in Future Earth, Climate Change and Societal Changes. Interdepartmental Ph.D. course. University of Bologna.
- ✓ Computational statistics. Ph.D. in Computer Science and Engineering. Department of Computer Science and Engineering. University of Bologna.

Master's degree courses

- ✓ Statistical methods for data analysis. Faculty of Economics. University of Bologna (Forli).

Bachelor's degree courses

- ✓ Time series analysis. Department of Statistical Sciences, University of Bologna.
- ✓ Longitudinal data analysis. Department of Statistical Sciences, University of Bologna.
- ✓ Computational statistics. Department of Statistical Sciences, University of Bologna.
- ✓ Statistics. Department of Political and Social Sciences. University of Bologna (Forli).
- ✓ Statistical and Financial Lab. Faculty of Statistics, University of Bologna (Rimini).