

Curriculum Vitae of Francesco Bartolucci

Department of Economics

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Personal data

- Born on July 6, 1972

Education

- 1995: Graduation in Economics - University of Perugia
- 1999: Doctorate in “Statistical and Mathematical Methods for the Economic and Social Research” - University of Perugia

Current position

- 2007 - : Full Professor of Statistics in the Department of Economics at the University of Perugia (title of Full Professor acquired in 2005)

Current institutional roles and responsibilities

- 2013 - : Member of the Academic Board of the Doctorate program in “Mathematics, Informatics, and Statistics” at the University of Florence, jointly with the University of Perugia
- 2013 - : Member of the Committee of Evaluation (“Nucleo di Valutazione”) of the University of Perugia

Previous positions

- 2005 - 2007: Associate Professor of Statistics in the Faculty of Economics at the University of Perugia
- 2002 - 2005: Associate Professor of Statistics in the Faculty of Economics at the University of Urbino (IT)
- 2001 - 2002: Assistant Professor of Statistics in the Faculty of Political Sciences at the University of Perugia
- 1998 - 2001: Research Assistant in the Department of Statistics at the University of Perugia within the research project on “Graphical models with latent variables and stochastic ordering constraints”

Previous institutional roles and responsibilities

- 2007 - 2012: Coordinator of the PhD program in “Mathematical and Statistical Methods for the Economic and Social Sciences” at the University of Perugia
- 2002 - 2012: Member of the Academic Board of the PhD program in “Econometrics and Empirical Economics” at the University of Rome “Tor Vergata” (IT)

Visiting periods

- 2017: Distinguished Visiting Scholar at Rhode Island University (USA)
- 2009-: Several short visiting periods within Erasmus Exchange programs at: University College of Dublin (IE), Universitat Pompeu Frabra of Barcelona (ES)
- 2000: Visiting scholar in the Department of Statistics at the Penn State University (USA)
- 1997: Doctorate visiting student in the School of Mathematics and Statistics, University of Sheffield (UK)

Research interests

- Analysis of complex data structures: Longitudinal/multilevel data; spatial-temporal data; social networks
- Econometric models for panel data, with applications in health and labor market
- Marginal models for categorical data
- Mixture and latent variable models, included hidden Markov models
- Monte Carlo and optimization algorithms for Bayesian and maximum likelihood estimation
- Stochastic volatility models based on hidden variables

Bibliometric indices

- H-index ISI: 15
- H-index Scopus: 16
- H-index Google Scholar: 22

Research projects (as coordinator)

- 2013 - : Principal Investigator of the research grant about “Mixture and latent variable models for causal inference and analysis of socio-economic data”, which was funded by the Italian Government (FIRB 2012 – “Futuro in ricerca”), with an overall project cost of around 900.000€
- 2009-2011: Principal Investigator of the research project “Advances in non-linear panel models with socio-economic applications” funded by the “Einaudi Institute for Economics and Finance” (Rome) for an overall amount of 30.000€
- 2007 - : Coordinator of several projects funded by Departments of Medicine within University of Perugia, for an overall amount of over 100.000€

Research projects (as member)

- PRIN 2007, “Marginal models for causal inference”
- PRIN 2005, “Marginal models for causal inference”
- PRIN 2003, “Inference under uncertainty on the model”
- PRIN 2002, “Stochastic ordering in the analysis of dependence in multiple tables with application in sociology and health”.

Editorial and evaluation activity

- 2015 - 2016: Member of the Group of Evaluation Experts (GEV) that manages the Evaluation of the Quality of Research (VQR) - period 2011-2014 - for the subjects of Economics and Statistics; Coordinator of the sub-group evaluating research products in Statistics and Mathematical Methods for Decisions
- 2015: Guest Editor of the Special Issue of *Metron* on “Latent variable models for the analysis of socio-economic data”
- 2012 - 2013: Member of the Group of Evaluation Experts (GEV) that managed the Evaluation of the Quality of Research (VQR) period 2004-2010, for the subjects of Economics and Statistics
- 2009 - 2012: Associate Editor of *Statistical Models and Applications*
- 2007 - : Associate Editor of *Metron*
- 2003 - : Associate Editor of *Statistical Modeling: An international journal*
- Referee for the most important international journals of Statistics and Econometrics

Organization of the international conferences

- “International Workshop on Statistical Modelling”, Rennes (F), July 2016 (member of the scientific committee)
- ICEEE 2013, “Fifth Italian Congress of Econometrics and Empirical Economics”, Genova (IT), January 2013 (member of the program committee)
- ICEEE 2011, “Fourth Italian Congress of Econometrics and Empirical Economics”, Pisa (IT), January 2011 (member of the program committee)
- “Patient Reported Outcomes and Quality of Life”, Paris (F), July 2011 (member of the scientific committee)
- “Classification and Data Analysis (CLADAG) 2008”, Caserta (IT), June 2008 (member of the scientific committee)
- “International Workshop on Statistical Modelling”, Barcelona (ES), July 2007 (member of the scientific committee)
- “Statistical Latent Variables Models in the Health Sciences”, Perugia, September 2006 (member of the local committee)

Seminars

- 2017: “Shedding light on the mystery of Data Science: Statistician’s view”, University of Rhode Island (USA)
- 2017: “Latent Markov models for longitudinal data”, University of Rhode Island
- 2016: “Composite likelihood inference for hidden Markov models for dynamic networks: a new perspective for stochastic blockmodels”, University of Lugano (CH)
- 2016: “Stochastic block models: inferential developments in the context of static and dynamic social networks”, University of Milano-Bicocca (IT)
- 2015: “Quadratic exponential model for estimating the dynamic logit model and testing for state dependence in binary panel data”, University of Luxembourg (LU)
- 2014: “Study of the effect of the university degree on the work path by a latent Markov model”, University of Bolzano (IT)
- 2013: “Testing for time-invariant unobserved heterogeneity in nonlinear panel-data models”, University di Bologna (IT)
- 2012: “Testing for time-invariant unobserved heterogeneity in nonlinear panel-data models”, University of Genève (CH)
- 2012: “Ranking scientific journals via latent class models for polytomous item response data”, EIEF, Rome (IT)
- 2012: “Continuous and discrete latent variable models for longitudinal data: comparison and new proposal”, University of Catania (IT)
- 2012: “Latent variable models for longitudinal data”, University of Rome 3 (IT)
- 2010: “Performance evaluation of nursing homes via latent Markov models”, University of Milan-Bicocca
- 2009: “Analysis of binary panel data by static and dynamic logit models”, University di Naples – Federico II (IT)
- 2009: Pseudo conditional ML estimation of the dynamic logit model for binary panel data”, Universitat Pompeu Fabras of Barcelona & University of Leaven (BE)
- 2008: Dynamic logit model: pseudo conditional likelihood estimation and latent Markov extension, University of Rome – LUISS (IT)
- 2006: “Likelihood inference for a latent Markov Rasch model, with application to educational assessment”, University of Paris VI- Pierre et Marie Curie (F)
- 2005: “A class of latent marginal models for capture-recapture data with continuous covariates”, University of Pavia (IT)
- 2004: “Empirical likelihood control charts for the process mean, Department of Applied Statistics and Operational Research”, Università Politecnica de Valencia (ES)
- 2003: “A Markov Chain Approach to Quality Control, Department of Applied Statistics and Operational Research”, Universitat Politècnica de València
- 2003: “Mixture models for the analysis of capture-recapture data”, Bocconi University, Milan (IT)
- 2002: “Analysis of categorical data by marginal models expressed through equality and inequality constraints”, EIEF, Rome
- 2002: “A class of latent variable models for the analysis of capture-recapture data”, Insubria University, Varese (IT)
- 2000: “A Likelihood Ratio Test for MTP2 within Binary Variables”, Penn State University

Teaching activity

- 2016-2017: Basic course of Statistics for undergraduate students of the Department of Economics, University of Perugia
Course on Regression methods for graduate students in “Finance and Quantitative Methods for Economics” at the Department of Economics, University of Perugia
Course on Latent variable models for visiting students at EIEF, Rome
Course on Latent variable models for graduate students enrolled in the PhD program in “Mathematics, Informatics, and Statistics” at the University of Florence, jointly with the University of Perugia
- 2002-2015: Each year basic course of Statistics for undergraduate students at the Faculty of Economics, University of Urbino, and later at the Faculty (and then Department) of Economics, University of Perugia
- 2003-2015: Several courses for graduate students at the Faculty of Economics, University of Urbino, and then at the Faculty (and Department) of Economics - University of Perugia
Basic course of Statistics for master students at the Faculty of Economics, University of Rome Tor Vergata, and then course for graduate students at EIEF, Rome, repeated annually
- 2000: Course on Regression methods for master students at the Department of Statistics, Penn State University

July 4, 2017

Francesco Bartolucci

Francesco Bartolucci

Main publications of Francesco Bartolucci (conference papers, working papers, and similar publications not reported)

Books

1. Bartolucci, F., Bacci, S., and Gnaldi, M. (2015), *Statistical Analysis of Questionnaires: A Unified Approach Based on Stata and R*, Chapman and Hall/CRC press.
2. Bartolucci, F., Farcomeni, A., and Pennoni, F. (2013), *Latent Markov Models for Longitudinal Data*, Chapman and Hall/CRC press.

Articles in top statistical/econometric ISI journals (*Annals of Statistics*, *Biometrics*, *Biometrika*, *Econometrica*, *Journal of the American Statistical Association*, *Journal of the Royal Statistical Society – Series B*)

3. Bartolucci, F. and Lupparelli, M. (2016), Pairwise likelihood inference for nested hidden Markov chain models for multilevel longitudinal data, *Journal of the American Statistical Association*, **111**, pp. 216-228.
4. Bartolucci, F. and Farcomeni, A. (2015), A discrete time event-history approach to informative drop-out in mixed latent Markov models with covariates, *Biometrics*, **71**, pp. 80-89.
5. Bartolucci, F., Belotti, F., and Peracchi, F. (2015), Testing for time-invariant unobserved heterogeneity in generalized linear models for panel data, *Journal of Econometrics*, **184**, pp. 111-123.
6. Bartolucci, F. and Nigro, V. (2012), Pseudo conditional maximum likelihood estimation of the dynamic logit model for binary panel data, *Journal of Econometrics*, **170**, pp. 102-116.
7. Bartolucci, F. and Grilli, L. (2011), Modelling partial compliance through copulas in a principal stratification framework, *Journal of the American Statistical Association*, **106**, pp. 469-479.
8. Bartolucci, F. and Nigro, V. (2010), A Dynamic Model for binary panel data with unobserved heterogeneity admitting a root-n consistent conditional estimator, *Econometrica*, **78**, pp. 719-733.
9. Bartolucci, F. and Farcomeni, A. (2009), A multivariate extension of the dynamic logit model for longitudinal data based on a latent Markov heterogeneity structure, *Journal of the American Statistical Association*, **104**, pp. 816-831.
10. Bartolucci, F. and Pennoni, F. (2007), A class of latent Markov models for capture-recapture data allowing for time, heterogeneity and behavioral effects, *Biometrics*, **63**, pp. 568-578.
11. Bartolucci, F. and Pennoni, F. (2007), On the approximation of the quadratic exponential distribution in a latent variable context, *Biometrika*, **94**, pp. 745-754.
12. Bartolucci, F. (2006), Likelihood inference for a class of latent Markov models under linear hypotheses on the transition probabilities, *Journal of the Royal Statistical Society, series B*, **68**, pp. 155-178.
13. Bartolucci, F. and Forcina, A. (2006), A class of latent marginal models for capture-recapture data with continuous covariates, *Journal of the American Statistical Association*, **101**, pp. 786-794.
14. Bartolucci, F., Scaccia, L., and Mira, A. (2006), Efficient Bayes factor estimation from the Reversible Jump output, *Biometrika*, **93**, pp. 41-52.
15. Bartolucci, F. and Besag, J. (2002), A recursive algorithm for Markov random fields, *Biometrika*, **89**, pp. 724-730.
16. Bartolucci, F. and Forcina, A. (2002), Extended RC association models allowing for order restrictions and marginal modeling, *Journal of the American Statistical Association*, **97**, pp. 1192-1199.
17. Bartolucci, F. and Forcina, A. (2001), Analysis of capture-recapture data with a Rasch-type model allowing for conditional dependence and multidimensionality, *Biometrics*, **57**, pp. 714-719.
18. Bartolucci, F., Forcina, A., and Dardanoni, V. (2001), Positive quadrant dependence and marginal modelling in two-way tables with ordered margins, *Journal of the American Statistical Association*, **96**, pp. 1497-1505.
19. Bartolucci, F. and Forcina, A. (2000), A likelihood ratio test for MTP_2 within binary variables, *The Annals of Statistics*, **28**, pp. 1206-1218.

Articles in other ISI journals

20. Bartolucci, F., Farcomeni, A., and Scaccia, L. (2017), A nonparametric multidimensional latent class IRT model in a Bayesian framework, *Psychometrika*, in press.
21. Bartolucci, F. and Pigni, C. (2017), cquad: An R and Stata Package for Conditional Maximum Likelihood Estimation of Dynamic Binary Panel Data Models, *Journal of Statistical Software*, in press.
22. Bartolucci, F., Montanari, G.E., and Pandolfi, S. (2017), Latent ignorability and item selection for nursing home case-mix evaluation, *Journal of Classification*, in press.
23. Bartolucci, F., Pandolfi, S., and Pennoni, F. (2017), LMest: An R Package for Latent Markov Models for Longitudinal Categorical Data, *Journal of Statistical Software*, accepted.
24. Bartolucci, F., Chiaromonte, F., Kuruppumullage Don, P., and Lindsay, B. G. (2017), Composite likelihood inference in a discrete latent variable model for two-way "clustering-by-segmentation" problems, *Journal of Computational and Graphical Statistics*, **26**, pp. 388-402.

25. Cagnone, S. and Bartolucci, F. (2017), Adaptive quadrature for maximum likelihood estimation of a class of dynamic latent variable models, *Computational Economics*, **49**, pp. 599-622.
26. Bacci, S., Bartolucci, F., and Pandolfi, S. (2016), A joint model for longitudinal and survival data based on an AR(1) latent process, *Statistical Methods in Medical Research*, in press.
27. Bacci, S. and Bartolucci, F. (2016), Two-Tier Latent Class IRT Models in R, *The R Journal*, **8**, pp. 139-166.
28. Bartolucci, F., Bellio, R., Sartori, N. and Salvan, A. (2016), Modified profile likelihood for fixed-effects panel data models, *Econometric Reviews*, **35**, 1271-1289.
29. Bartolucci, F., Montanari, G.E., and Pandolfi, S. (2016), Item selection by latent class-based methods: An application to nursing home evaluation, *Advances in Data Analysis and Classification*, **10**, pp.245-262.
30. Bartolucci, F., Pennoni, F., and Vittadini, G. (2016), Causal latent Markov model for the comparison of multiple treatments in observational longitudinal studies, *Journal of Educational and Behavioral Statistics*, **41**, pp. 146-179.
31. Gnaldi, M., Bacci, S., and Bartolucci, F. (2016), A multilevel finite mixture item response model to cluster examinees and schools, *Advances in Data Analysis and Classification*, **10**, pp. 53-70.
32. Bacci, S. and Bartolucci, F. (2015), A Multidimensional finite mixture structural equation model for non-ignorable missing responses, *Structural Equation Modeling: A Multidisciplinary Journal*, **22**, pp. 352-365.
33. Bartolucci, F. (2015), A comparison between g-index and h-index based on concentration, *Journal of the Association for Information Science and Technology*, **66**, pp. 2708–2710.
34. Bartolucci, F. and Farcomeni, A. (2015), Information matrix for hidden Markov models with covariates, *Statistics and Computing*, **25**, pp. 515-526.
35. Bartolucci, F., Dardanoni, V., and Peracchi, F. (2015), Ranking scientific journals via latent class models for polytomous item response data, *Journal of the Royal Statistical Society, series - A*, **178**, pp. 1025–1049.
36. Bartolucci, F., Montanari, G. E., and Pandolfi, S. (2015), Three-step estimation of latent Markov models with covariates, *Computational Statistics and Data Analysis*, **83**, pp. 287-301.
37. Bartolucci, F., Nigro, V., and Pigini, C. (2015), Testing for State Dependence in Binary Panel Data with Individual Covariates by a Modified Quadratic Exponential Model, *Econometric Reviews*, in press.
38. Borsci, S., Federici, S., Bacci, S., Gnaldi, M., and Bartolucci, F. (2015), Assessing User Satisfaction in the Era of User Experience: Comparison of the SUS, UMUX and UMUX - LITE as a Function of Product Experience, *International Journal of Human-Computer Interaction*, **31**, pp. 484-495.
39. Bacci, S. and Bartolucci, F. (2014), Mixtures of equispaced normal distributions and their use for testing symmetry with univariate data, *Computational Statistics and Data Analysis*, **71**, pp. 262-272.
40. Bacci, S., Bartolucci, F., Chiavarini, M., Minelli, L., and Pieroni, L. (2014), Differences in birthweight outcomes: a longitudinal study based on siblings, *International Journal of Environmental Research and Public Health*, **11**, pp. 6472-6484.
41. Bacci, S., Bartolucci, F., and Gnaldi, M. (2014), A class of multidimensional latent class IRT models for ordinal polytomous item responses, *Communication in Statistics - Theory and Methods*, **43**, pp. 787-800.
42. Bartolucci, F. and Pandolfi, S. (2014), A new constant memory recursion for hidden Markov models, *Journal of Computational Biology*, **21**, pp. 99-117.
43. Bartolucci, F., Bacci, S., and Gnaldi, M. (2014), MultiLCIRT: an R package for multidimensional latent class item response models, *Computational Statistics and Data Analysis*, **71**, pp. 971-985.
44. Bartolucci, F., Bacci, S., and Pennoni, F. (2014), Longitudinal analysis of the self-reported health status by mixture latent autoregressive models, *Journal of the Royal Statistical Society - series C*, **63**, pp. 267-288.
45. Bartolucci, F., Farcomeni, A., and Pennoni, F. (2014), Latent Markov models: a review of a general framework for the analysis of longitudinal data with covariates (with discussion), *Test*, **23**, pp. 433-486.
46. Minelli, L., Pigini, C., Chiavarini, M., and Bartolucci, F. (2014), Employment status and perceived health condition: longitudinal data from Italy, *BMC Public Health*, **14**: 946.
47. Pandolfi, S., Bartolucci, F., and Friel, N. (2014), A generalized multiple-try metropolis version of the Reversible Jump algorithm, *Computational Statistics and Data Analysis*, **72**, 298–314.
48. Bartolucci, F. and Farcomeni, A. (2013), Causal inference in paired two-arm experimental studies under non-compliance with application to prognosis of myocardial infarction, *Statistics in Medicine*, **25**, pp. 4348-4366.
49. Bartolucci, F., Montanari, G.E., and S. Pandolfi (2012), Dimensionality of the latent structure and item selection via latent class multidimensional IRT models, *Psychometrika*, **77**, pp. 782-802.
50. Bartolucci, F., Scaccia, L. & Farcomeni, A. (2012), Bayesian inference through encompassing priors and importance sampling for a class of marginal models for categorical data, *Computational Statistics and Data Analysis*, **56**, pp. 4067-4080.
51. Chiavarini, M., Bartolucci, F., Gili, A., Pieroni, L., and Minelli, L. (2012), Effects of individual and social factors on preterm birth and low birth weight: an Italian case study, *International Journal of Public Health*, **57**, pp. 261-268.

52. Bartolucci, F., Pennoni, F., and Vittadini, G. (2011), Assessment of school performance through a multilevel latent Markov Rasch model, *Journal of Educational and Behavioral Statistics*, **36**, pp. 491-522.
53. Bartolucci, F. (2010), On the conditional logistic estimator in two-arm experimental studies with non-compliance and before-after binary outcomes, *Statistics in Medicine*, **29**, pp. 1411-1429.
54. Bartolucci, F. and Farcomeni, A. (2010), A Note on the mixture transition distribution and hidden Markov models, *Journal of Time Series Analysis*, **31**, pp. 132-138.
55. Bartolucci, F. and Solis-Trapala, I. (2010), Multidimensional latent Markov models in a developmental study of inhibitory control and attentional flexibility in early childhood, *Psychometrika*, **75**, pp. 725-743.
56. Bartolucci, F., Lupporelli, M., and Montanari, G. E. (2009), Latent Markov model for longitudinal binary data: an application to the performance evaluation of nursing homes, *Annals of Applied Statistics*, **3**, pp. 611-636.
57. Bartolucci, F. (2008), Focused information criterion for capture-recapture models for closed populations, *Scandinavian Journal of Statistics*, **35**, pp. 629 - 649.
58. Bartolucci, F. (2007), A class of multidimensional IRT models for testing unidimensionality and clustering items, *Psychometrika*, **72**, pp. 141-157.
59. Bartolucci, F. (2007), A penalized version of the empirical likelihood ratio for the population mean, *Statistics and Probability Letters*, **77**, pp. 104-110.
60. Bartolucci, F. and Nigro, V. (2007), Maximum likelihood estimation of an extended latent Markov model for clustered binary panel data, *Computational Statistics and data analysis*, **51**, pp. 3470-3483.
61. Bartolucci, F., Colombi, R., and Forcina, A. (2007), An extended class of marginal link functions for modelling contingency tables by equality and inequality constraints, *Statistica Sinica*, **17**, pp. 691-711.
62. Bartolucci, F., Pennoni, F., and Francis, B. (2007), A latent Markov model for detecting patterns of criminal activity, *Journal of the Royal Statistical Society, series A*, **170**, pp. 115-132.
63. Bartolucci, F. and Montanari, G. E. (2006), A new class of unbiased estimators for the variance of the systematic sample mean, *Journal of Statistical Planning and Inference*, **136**, pp. 1512-1525.
64. Bartolucci, F. (2005), Clustering univariate observations via mixtures of unimodal normal mixtures, *Journal of Classification*, **22**, pp. 203-219.
65. Bartolucci, F. and Forcina, A. (2005), Likelihood inference on the underlying structure of IRT models, *Psychometrika*, **70**, pp. 31-43.
66. Bartolucci, F. and Scaccia, L. (2005), The use of mixtures for dealing with non-normal regression errors, *Computational Statistics and Data Analysis*, **48**, pp. 821-834.
67. Bartolucci, F. and Scaccia, L. (2004), Testing for positive association in contingency tables with fixed margins, *Computational Statistics and Data Analysis*, **47**, pp. 195-210.
68. Forcina, A. and Bartolucci, F. (2004), Modelling quality of life variables with non-parametric mixtures, *Environmetrics*, **15**, pp. 519-528.
69. Bartolucci, F. and De Luca, G. (2003), Likelihood-based inference for asymmetric stochastic volatility models, *Computational Statistics and Data Analysis*, **42**, pp. 445-449.
70. Bartolucci, F. and De Luca, G. (2001), Maximum likelihood estimation for a latent variable time series model, *Applied Stochastic Models in Business and Industry*, **17**, pp. 5-17.
71. Bartolucci, F. (2001), Developments of the Markov chain approach within the distribution theory of runs, *Computational Statistics and Data Analysis*, **36**, pp. 107-118.

Chapters in international books and articles in non-ISI journals

72. Bartolucci, F. and Forcina, A. (2016), Latent class - Rasch models and marginal extensions, in *Capture-Recapture Methods for the Social and Medical Sciences*, D. Bohning, J. Bunge, and P. van der Heijden (Eds.), Chapman & Hall/CRC, in press.
73. Bacci, S., Bartolucci, F., and Pignini, C. (2016), Misspecification test for random effects in generalized linear finite-mixture models for clustered binary and ordered data, *Econometrics and Statistics*, in press.
74. Bacci, S., Bartolucci, F., Minelli, L., and Chiavarini, M. (2016), Preterm Birth: Analysis of Longitudinal Data on Siblings Based on Random-Effects Logit Models, *Frontiers in Public Health: Population, Reproductive and Sexual Health*.
75. Bacci, S., Bartolucci, F., Pignini, C., and Signorelli, M. (2015), A finite mixture latent trajectory model for the trend of open-ended contracts, *Selected Papers of the 47th Scientific Meeting of the Italian Statistical Society*, Springer Book, pp. 9-20.
76. Bartolucci, F. and Murphy, B. (2015), A finite mixture latent trajectory model for modeling ultrarunners' behavior in a 24-hour race, *Journal of Quantitative Analysis of Sports*, **11**, pp. 193-203.
77. Bartolucci, F. (2014), Modeling Longitudinal Data with Application to Educational and Psychological Measurement, *Analysis and Modeling of Complex Data in Behavioral and Social Sciences*, D. Vicari, A. Okada, G. Ragozini and C. Weihs (Editors), Springer, pp. 11-19.

78. Bartolucci, F., Bacci, S., and Pignini, C. (2013), Comparison between conditional and marginal maximum likelihood estimation for a class of ordinal item response models, *QdS - Journal of Methodological and Applied Statistics*, **15**, pp. 1-17.
79. Bacci, S. and Bartolucci, F. (2012), Mixtures of equispaced Normal distributions and their use for testing symmetry in univariate data, *Quaderni di Statistics*, **14**, pp. 13-16.
80. Bacci, S. and Bartolucci, F. (2012), A multidimensional latent class Rasch model for the assessment of the Health-related Quality of Life, in K. B. Christensen, M. Mesbah, and S. Kreiner (Editors), *Rasch models for Health Sciences*, pp. 197-218.
81. Bartolucci, F. and Pennoni F. (2011), Impact evaluation of job training programs by a latent variable model, In: Ingrassia S., Rocci R., Vichi M. (Editors), *New Perspectives in Statistical Modelling and Data Analysis*, Springer, pp. 65-73.
82. Bartolucci, F. and Scrucca, L. (2010), Point Estimation Methods with Applications to Item Response Theory Models, *International Encyclopedia of Education, 3rd Edition*, Editors: B. McGaw, E. Baker and P. P. Peterson, Elsevier, **7**, pp. 366-373.
83. Pandolfi, S., Bartolucci, F., and Friel, N. (2010), A generalization of the Multiple-try Metropolis algorithm for Bayesian estimation and model selection, *Journal of Machine Learning Research Workshop and Conference Proceedings, Volume 9: AISTATS 2010*, pp. 581-588.
84. Bartolucci, F., Pennoni, F., and Lupporelli, M. (2008), Likelihood inference for the latent Markov Rasch model, *Mathematical Methods for Survival Analysis, Reliability and Quality of Life*, pp. 239-254.
85. Minozzo, M., Forcina, A., and Bartolucci, F. (2006). Marginal models and pruning of association rules. In: *Metodi, Modelli e Tecnologie dell'Informazione a Supporto delle Decisioni*, pp. 473-481.
86. Scaccia, L., and Bartolucci, F. (2005), A Hierarchical Mixture Model for Gene Expression Data, *New Developments in Classification and Data Analysis* (Editors: M. Vichi, P. Monari, S. Mignani and A. Montanari), Springer, pp. 267-274.
87. Bartolucci, F., Mira, A., and Scaccia, L. (2003), Answering two biological questions with a latent class model via MCMC applied to capture-recapture data, in *Applied Bayesian Statistical Studies in Biology and Medicine* (Editors: M. Di Bacco, G. D'Amore, and F. Scalfari), Kluwer Academic Publishers, pp. 7-23.
88. Bartolucci, F. and De Luca, G. (2002), Estimation of stochastic volatility models, in *Computational Methods in Decision-Making, Economics and Finance* (Editors: E.J. Kontoghiorghes, B. Rustem, and S. Siokos), Kluwer Academic Publishers, pp. 541-556.

Editorials, letters to Editors, and comments in international journals

89. Bartolucci, F. (2016), Discussion on 'Statistical Modelling of Citation Exchange Between Statistics Journals' by Cristiano Varin, Manuela Cattelan and David Firth', *Journal of the Royal Statistical Society - Series A*, **179**, pp. 37-38.
90. Alfò, M. and Bartolucci, F. (2015), Latent variable models for the analysis of socio-economic data, *Introduction to Metron Special Issue*, **73**, pp. 151-154.
91. Bartolucci, F. and Pandolfi, S. (2014), Comment on "On the memory complexity of the forward-backward", *Pattern Recognition Letters*, **38**, pp. 15-19.
92. Bartolucci, F. (2012), On a possible decomposition of the h-index, letter to the Editor of the *Journal of the American Society for Information Science and Technology*, **63**, pp. 2126-2127.