

Marco Alfò

CONTACT INFORMATION

Università “La Sapienza” di Roma
Dipartimento di Scienze Statistiche
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RESEARCH INTERESTS

Generalized Linear models, Mixture Models, Longitudinal Data, Spatial Statistics

EDUCATION

Università “G. d’Annunzio ” di Chieti, Chieti, ITALY

Dipartimento di Metodi Quantitativi e Teoria Economica

Ph.D. Degree, Statistics, July 1998, X course (1994-1997)

Dissertation Topic: “Regression Models for longitudinal binary responses” (in italian)

Advisor: M. Vichi

University of Newcastle upon Tyne, UK

Department of Mathematics and Statistics

Temporary PhD student, Statistics, January - July 1997

Advisor: M. Aitkin

Università “La Sapienza” di Roma, Roma, ITALY

Dipartimento di Scienze Statistiche

B.Sc., Statistics, April, 1992

ACADEMIC EXPERIENCE

“Sapienza” Università di Roma, Roma, ITALY

Dipartimento di Statistica, Probabilità e Statistiche Applicate, Dipartimento di Scienze Statistiche

Full Professor

February, 2017-

“Multivariate Statistical Inference” (I year, MPhil Degree in Demographics, Economics and Statistics)

“Analysis of Longitudinal and Survival Data” (II year, MPhil Degree in Demographics, Economics and Statistics)

“Statistics” (I year, MPhil degree in Industrial, Agricultural and Environmental Genomics)

“Sapienza” Università di Roma, Roma, ITALY

Dipartimento di Statistica, Probabilità e Statistiche Applicate, Dipartimento di Scienze Statistiche

Associate Professor

December, 2012 - January, 2017

“Multivariate Statistical Inference” (I year, MPhil Degree in Demographics, Economics and Statistics)

“Analysis of Longitudinal and Survival Data” (II year, MPhil Degree in Demographics, Economics and Statistics)

“Statistics” (I year, MPhil degree in Industrial, Agricultural and Environmental Genomics)

“Sapienza” Università di Roma, Roma, ITALY
Dipartimento di Statistica, Probabilità e Statistiche Applicate, Dipartimento di Scienze Statistiche

Assistant Professor **January, 2005 - 2012**

“Advanced Multivariate Statistics” (I year, MPhil Degree in Economics and Statistics)

“Computational Methods in Statistics” (III year, Degree in Statistics and IT)

“Stats Lab” (I year, Degree in Statistics)

Università “La Sapienza” di Roma, Roma, ITALY
Dipartimento di Statistica, Probabilità e Statistiche Applicate

Research Associate **April, 2001 - December 2004**

Support to institutional courses, “Multivariate Statistical Analysis” (Prof. G. M. Giorgi), “Statistical Inference” (Prof. M. Vichi)

Università degli Studi di Roma III, Roma, ITALY
Facoltà di Scienze della Formazione

Instructor **April, 2000 - April 2001**

Course in “Applied Statistics”

PHD SUPERVISION AND EXAMINING EXPERIENCE *Supervision* 2007–2017

- Irene Rocchetti (XXIII cycle, PhD programme in Demography, co-supervision), 2007–2010
- Alessandra Spagnoli (XXIII cycle, PhD programme in Statistics), 2007–2010
- Sara Viviani (XXIV cycle, PhD programme in Statistics), 2008–2011
- Maria Francesca Marino (XXVII cycle, PhD programme in Statistics), 2011–2014
- Luca Acquafredda (XXX cycle, PhD programme in Statistics), 2014–2017
- Silvia D’Angelo (XXX cycle, PhD programme in Statistics), 2015–

Examining experience 2010–2017

- University of Reading, 2010 (Isak Neema)
- University of Chieti–Pescara, 2013 (PhD students from the XXV cycle, PhD programme in Economics and Statistics)
- University of Milano Bicocca, 2014 and 2015 (PhD students from the XXV, XXVI and XXVIII cycles, PhD programme in Statistics and Applications)
- University of Southampton, 2015 (Alberto Vidal-Diez)
- University of Bologna, 2015 (PhD students from the XXVI and XXVII cycles, PhD programme in Statistics for Scientific and Experimental Research)
- University of Rome, 2016 (PhD students from XXV and XXVI cycles, PhD programme in Statistics and Economics)
- University College Dublin, 2018 (Lucy Small)

PUBLICATIONS, LAST 3 YEARS

1. Marino, M.F., Tzavidis N. and Alfò, M. (2018). Mixed hidden Markov quantile regression models for longitudinal data with possibly incomplete sequences, *Statistical methods in medical research*, **27**, 2231–2246.
2. Spagnoli, A., Marino, M.F. and Alfò, M. (2018). A bidimensional finite mixture model for longitudinal data subject to dropout, *Statistics in Medicine*, **37**, 2298–3011.

3. Alfò, M. and Dankmar Böhning (2017). Editorial for the discussion papers on the p-value controversy, *Biometrical Journal*, **59**, 853–853.
4. Alfò, M., Salvati, N. and Ranalli, M.G. (2017) Finite mixtures of quantile and M-quantile regression models, *Statistics and Computing*, **27**, 547–570.
5. Alfò, M. and Böhning, D. (2017) Editorial for the discussion papers on the p-value controversy, *Biometrical Journal*, **59**:853-853
6. Sacco, C. et al. (2017) Growth curves of *normal* serum total IgE levels throughout childhood: a quantile analysis in a birth cohort, *Pediatric Allergy and Immunology*, **28**:525–534
7. Martella, F. and Alfò, M. (2017) A finite mixture approach to joint clustering of individuals and multivariate discrete outcomes, *Journal of Statistical Computation and Simulation*, **87**:2186-2206
8. De Sanctis, V. et al. (2017) Second cancer incidence in primary mediastinal B-cell lymphoma treated with methotrexate with leucovorin rescue, doxorubicin, cyclophosphamide, vincristine, prednisone, and bleomycin regimen with or without rituximab and mediastinal radiotherapy: Results from a monoinstitutional cohort analysis of long-term survivors, *Hematological oncology*, *forthcoming*, doi: 10.1002/hon.2377.
9. Alfò, M. et al. (2016) The statistical legacy of Corrado Gini, *Metron*, **74**:141–143
10. Böhning, D. et al. (2016) A flexible ratio regression approach for zero-truncated capture-recapture counts, *Biometrics*, **72**:697–706
11. Böhning, D., Alfò, M. (2016) Special issue on models for continuous data with a spike at zero, *Biometrical Journal*, **58**:255–258
12. Marino, M.F., Alfò, M. (2016) Gaussian quadrature approximations in mixed hidden Markov models for longitudinal data: A simulation study, *Computational Statistics and Data Analysis*, **94**:193–209
13. Marino, M.F., Alfò, M. (2015) Latent drop-out based transitions in linear quantile hidden Markov models for longitudinal responses with attrition, *Advances in Data Analysis and Classification*, **9**:483–502
14. Pelosi, M. et al. (2015) Finite mixture clustering of human tissues with different levels of IGF-1 splice variants mRNA transcripts, *BMC bioinformatics*, **16**:289
15. Alfò, M., Bartolucci, F. (2015) Latent variable models for the analysis of socio-economic data, *Metron*, **73**:151–154
16. Spagnoli, A., Houwing-Duistermaat, J.J., Alfò, M. (2015) Mixed-effect models for longitudinal responses with different types of dropout: an application to the Leiden 85-plus study, *Journal of Applied Statistics*, **42**:1896–1910
17. Mazzucconi, M.G. et al. (2015) Maternal thrombophilia and adverse pregnancy outcome: a case-control study, *Acta haematologica*, **133**:242–248

**International
Cooperation
Activities**

Project *Africa Sub Sahariana - Rafforzamento al settore statistico per AFRISTAT (Observatoire Economique et Statistique d’Afrique Subsaharienne) e EASTC (Eastern Africa Statistical Training Center)*, Dar-es-Saalam , 9-18 june 2018, on behalf of AICS, Agenzia Italiana per la Cooperazione allo Sviluppo.

EDITORIAL WORK *co-Editor* Biometrical Journal (2015-)

Editor Metron (2018-)

Associate Editor Computational Statistics and Data Analysis, special issue on *Advances in Mixture Models*

Editorial Executive Panel, member Statistical Methods and Applications (2007-2012)

Referee Journal of the American Statistical Association (2014 -), Psychometrika (2014 -), Journal of the Royal Statistical Society, series A, C (2012 -), Biometrics (2012 -), Journal of Statistical Computation and Simulation (2010 -), Journal of Classification (2010 -), Biostatistics (2009 -), Journal of Economic Growth (2009 -), Empirical Economics (2009 -), Computational Statistics and Data Analysis (2005 -), Biometrical Journal (2004-), Metron (2004-), Statistics in Medicine (2004 -), Statistical Modelling: An International Journal (2003 -), Società Italiana di Statistica (2003 -), Statistical Methods and Applications (2002 -)