

## **Short CV with publications**

### ***PERSONAL DATA***

*Name:* **Andrea Ongaro**

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### ***EDUCATION***

Laurea (M. Sc.) in Statistical and economic sciences (1988), University of Padova, Italy

Ph. D. in Statistics (1992), University of Padova, Italy

### ***ACADEMIC RECORD***

1989-1992: stay as Ph.D. student at the Department of Theoretical Statistics, Aarhus University, Denmark

1993-2000: Assistant Professor (Ricercatore) of Statistics, Department of Statistical Sciences, University of Padova, Italy

2000-2005: Associate Professor of Statistics, Department of Statistics, University of Milano-Bicocca, Italy

2005- 2012: Professor of Statistics, Department of Statistics, University of Milano-Bicocca, Italy

2012-present: Professor of Statistics, Department of Economics, Quantitative Methods and Management, University of Milano-Bicocca, Italy

### ***TEACHING EXPERIENCE***

Over the years I have been involved in several courses in the areas of inferential statistics and probability, mainly taught at Faculties of Statistics, both at an undergraduate and graduate (Ph.D.) level.

### ***OTHER RECENT ACTIVITIES***

Coordinator of the section “Statistics” of the Department of Economics, Quantitative Methods and Management, University of Milano-Bicocca.

Coordinator of the teaching activities of the curriculum “Statistics” of the Ph.D. in Economics, Statistics and Data science, University of Milano-Bicocca.

Member of the Scientific Board of the Milan Center for Neuroscience.

## ***MAIN RECENT RESEARCH INTERESTS***

Nonparametric Bayesian statistics, Compositional data, Mixture models, Statistical assessment of practical significance.

## ***SELECTED PAPERS***

*(in reverse chronological order)*

Migliorati, S., Ongaro, A., Monti, G. 2020. "A new mixture model on the simplex" *Statistics and Computing*, DOI:10.1007/s11222-019-09920-x.

Di Brisco, A., Migliorati, S. & Ongaro, A. 2019. "Robustness against outliers: A new variance inflated regression model for proportions". DOI:10.1177/1471082X18821213. In *STATISTICAL MODELLING* - ISSN:1471-082X

Migliorati, S, Di Brisco, A; Ongaro, A 2018. "A New Regression Model for Bounded Responses". DOI:10.1214/17-BA1079. pp.845-872. In *BAYESIAN ANALYSIS* - ISSN:1936-0975 vol. 13 (3)

Migliorati, S., Ongaro, A., Monti, G. 2016. "A structured Dirichlet mixture model for compositional data: inferential and applicative issues" *Statistics and Computing*, vol. 27 (4), .pp.963-983.

Bissiri, P., Ongaro, A., (2014). "On the topological support of species sampling priors", *Electronic Journal of Statistics*, 8, 861-882.

Bissiri, P., Ongaro, A., Walker S., (2013). "Species sampling models: consistency for the number of species", *Biometrika*, 100(3), 771-777.

Ongaro, A., Migliorati, S. (2013). "A generalization of the Dirichlet distribution", *Journal of Multivariate Analysis*, 114, 412-426.

Hjort N.L., Ongaro A. (2006). "On the distribution of random Dirichlet jumps", *Metron*, vol.LXIV, pp. 61-92.

Ongaro, A. (2005). "Size-biased sampling and discrete nonparametric Bayesian inference", *Journal of Statistical Planning and Inference*, vol. 128/1, pp. 123-148.

Hjort, N.L., Ongaro, A. (2005). "Exact inference for random Dirichlet means", *Statistical Inference for Stochastic Processes*, vol.8, pp. 227-254.

Ongaro A., Cattaneo C. (2005). "Discrete random probability measures: a general framework for Bayesian inference". *Statistics and Probability Letters*, vol. 67, pp. 33-45.

## **CONFERENCE PROCEEDINGS, BOOK CHAPTERS AND OTHER PUBLICATIONS**

(2021) Ascari, R., Migliorati, S., & Ongaro, A. (2021). "The Double Flexible Dirichlet: A Structured Mixture Model for Compositional Data." In Y. Dimotikalis, A. Karagrigoriou, C. Parpoula, & C.H. Skiadas (a cura di), *Applied Modeling Techniques and Data Analysis 2 Financial, Demographic, Stochastic and Statistical Models and Methods Volume 8 - Big Data, Artificial Intelligence and Data Analysis*. Wiley.

(2021) Ascari, R., Di Brisco, A., Migliorati, S., & Ongaro, A.. "Alternative parameterizations for regression models with constrained multivariate responses".. In *Book of Short Papers SIS 2021* (pp.930-935). Torino : Pearson.

(2019) Migliorati, S., Di Brisco, A., & Ongaro, A. " The Flexible Beta Regression Model". In *Data Analysis and Applications 1* - ISBN:9781786303820

(2019) Di Brisco, A., Ascari, R., Migliorati, S. & Ongaro, "A new regression model for bounded multivariate responses" pp.817-822. In *Book of Short Papers SIS2019* - ISBN:9788891915108

(2019) Ascari, R., Migliorati, S. & Ongaro, A. "Bayesian Inference for a Mixture Model on the Simplex" DOI:10.1007/978-3-030-21140-0\_11. pp.103-110. In *Statistical Learning of Complex Data* - ISBN:978-3-030-21139-4. In *STUDIES IN CLASSIFICATION, DATA ANALYSIS, AND KNOWLEDGE ORGANIZATION* - ISSN:1431-8814

(2018) Ascari, R., Migliorati, S., & Ongaro, A. "A new Dirichlet-multinomial mixture model for count data". In *Programme and Abstracts 12th International Conference on Computational and Financial Econometrics (CFE 2018)* - ISBN:978-9963-2227

(2017) Ascari, R., Migliorati, S., & Ongaro, A." The Extended Flexible Dirichlet model: a simulation study". In *Proceedings of the 17th Applied Stochastic Models and Data Analysis International Conference with the 6th Demographics Workshop*.

(2017) Migliorati, S., Di Brisco, A., & Ongaro, A. " The Flexible Beta Regression Model". In *Proceedings of the 17th Applied Stochastic Models and Data Analysis International Conference with the 6th Demographics Workshop*.

(2017) Ascari, R., Migliorati, S., & Ongaro, A. (2017). "A special Dirichlet mixture model in a Bayesian perspective". In *Cladag 2017 Book of Short Papers* (pp.1-6). CLADAG Scientific Meeting of the CLAssification and Data Analysis Group of SIS, Universitas Studiorum.

(2015) Ongaro, A; Migliorati, S . "A Dirichlet Mixture Model for Compositions Allowing for Dependence on the Size" pp. 101-112. In *Advances in Latent Variables*, ISBN 978-3-319-02966-5. Springer

(2015) Ongaro, A., & Orsi, C. Some results on non-central beta distributions. *STATISTICA*, 75(1), 85-100.

(2015) Migliorati, S., & Ongaro, A. Inferential issues in the Extended Flexible Dirichlet model. In *ASMDA 2015 Proceedings* (pp.665-678). Skiadas, CH. Published by ISAST: international Society for the Advancement of Science and Technology.

- (2014) Ongaro A., Migliorati S. A Dirichlet Mixture Model for Compositions Allowing for Dependence on the Size. In: *Advances in Latent Variables: Methods, Models and Applications*, Springer
- (2014) Ongaro A, Orsi C . On Non-central Beta distributions. In: 47th Scientific Meeting of the Italian Statistical Society - Proceedings. CAGLIARI:CUEC
- (2013) Ongaro A, Migliorati S . A new mixture model for composition and size. In: *Advances in Latent Variables*. Milan:Vita e Pensiero, Brescia.
- (2013) Bissiri, P., Ongaro A., Walker S. “Species sampling models: estimate of the number of species” in *Proceedings of 9th Conference on Bayesian Nonparametrics*, Amsterdam, June 10-14.
- (2012) Bissiri, P., Ongaro A., Walker S. “Species sampling models: Consistency for the number of species” in 5th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computing & Statistics, Oviedo, Spain, 1-3 December 2012, invited talk
- (2012) Migliorati, S., Monti, G.S., & Ongaro, A. “Point and interval estimation for the Flexible Dirichlet model”, in *Proceedings of the 2<sup>nd</sup> Stochastic Modeling Techniques and Data Analysis International Conference (SMTDA2012)*, Chania, Greece.
- (2011) Ongaro, A., Migliorati, S., & Monti, G.S. “A new multivariate distribution as a basis for compositional data”, in *Proceedings of Applied Stochastic Models and Data Analysis International Conference (ASMDA 2011)*, Roma : Ets.
- (2010) Migliorati, S., Monti, G.S., & Ongaro, A. “The Flexible Dirichlet family: some inferential issues”, in *Proceedings of Stochastic Modeling Techniques and Data Analysis International Conference (SMTDA2010)*, Chania, Greece.
- (2010) Migliorati, S., & Ongaro, A. “Adjusting  $p$ -values when  $n$  is large in the presence of nuisance parameters”, in C.H. Skiadas (edited by), *Advances in data analysis*. Boston : Birkhauser.
- (2008) Ongaro, A., Migliorati, S., & Monti, G.S. A new distribution on the simplex containing the Dirichlet family. In *Proceedings of CODAWORK'08, The 3rd Compositional Data Analysis Workshop*, May 27-30, University of Girona.
- (2008) Migliorati S, Monti G.S, Ongaro A. E-M algorithm: an application to a mixture-model for compositional data. In: *Atti della XLIV Riunione Scientifica*. University of Calabria, June 25-27 2008.
- (2007) Migliorati, S., & Ongaro, A. (2007). Standard packages outputs when  $n$  is large: when and how should they be adjusted?. In *ASMDA 2007 PROCEEDINGS*.
- (2005) Ongaro A. A new random re-labelling scheme for posterior calculations of symmetric prior processes. In *Abstract of talks of the Fourth workshop on Bayesian inference in stochastic processes*, June 2-4, 2005