Patrizio Frederic

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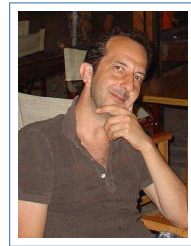
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Education

2001	**PhD in Statistics**, *University of Bologna*.
1995	**MSc in Statistics**, *University of Bologna*.

Work Experiences

Academic Positions

2005 – pres.	**Assistant Professor of Statistics**, *Department of Economics, Marco Biagi*, University of Modena and Reggio Emilia.
2003 – 2004	**Visiting researcher**, *CAG (Climatology Analysis Group), Department of Meteorology*, University of Reading (UK).
2002 – 2005	**Research Fellow**, *Department of statistics*, University of Bologna, Project: Statistical Models in industrial chemical process. Supervisor: prof. M. Di Bacco
2000 – 2001	**Postdoc fellow**, *department of statistics*, university of Bologna.

Consulting

2001 – 2008	**Statistical consultant**, *CIBA S.C.*, Bologna.
2000 – 2001	**Statistical consultant**, *CNR*, Florence. Il popolamento umano dell'Italia dal III al I millennio A.C.: le variabili morfometriche dello scheletro della popolazione dell'Italia peninsulare e della Sicilia
1996 – 1997	**Statistical consultant**, *Department of Hearth Science*, University of Bologna. project code: TELFLOOD

Affiliations

Member of the Department of Economics (university of Modena and Reggio Emilia) since 2005. and of ReCent (Center for Economic Research). He has been member of of SIS (Italian Statistical Society), ISBA (International Society of Bayesian Analysis), and AIRO (Italian Society of Operational Research).

Referee Activities

Scandinavian Journal of Statistics, Journal of Applied Meteorology and Climatology, Statistica Applicata

Teaching Experiances

2005–pres.   Instructor at the course of Statistics (undergraduate course – 9 crediti laurea triennale), B.A. in economics, Facoltà di Economia, university of Modena

2007–2008   Instructor at the course of Econometrics (postgraduate course – 4 crediti laurea magistrale in Economia e Politiche Pubbliche), B.A. in economics, Facoltà di Economia, university of Modena

2005–2007   Instructor at the course of Probability and Inference (postgraduate course – 4 crediti laurea magistrale in Economia), B.A. in economics, Facoltà di Economia, university of Modena

Languages

Italian   **native**

French   **native**

English   **Fluent verbal and reading**

Pubblications

Lalla, M., D. Mantovani, and P. Frederic (2019). *Measurement errors and tax evasion in annual incomes: evidence from survey data matched with fiscal data*. Tech. rep.

D'Amore, G., A. Orru, P. Frederic, and M. Di Bacco (2018). "Probability of Mitochondrial Lineage Extinction in Female Offspring, Modern and Paleolithic: Branching Process Analysis". In: *Russian Journa of Genetics* 54 (9), pp. 1120–1123. DOI: 10.1134/S1022795418090028.

Orru, A., S. De Iasio, P. Frederic, M. Girotti, R. Boano, and E. Sanna (2018). "Probability of Mitochondrial Lineage Extinction in Female Offspring, Modern and Paleolithic: Branching Process Analysis". In: *HOMO* 69 (3), pp. 127–138. DOI: 10.1016/j.jchb.2018.06.006.

Murat, M. and P. Frederic (2014). "Institutions, culture and background: the school performance of immigrant students". In: *EDUCATION ECONOMICS* . Pp. 1–19. DOI: 10.1080/09645292.2014.894497.

Frederic, P., M. Di Bacco, and F. Lad (2012). "Combining Experts' Probabilities via the Product of Odds". In: *THEORY AND DECISION* 73 (4), pp. 605–619. DOI: 10.1007/s11238-012-9320-9.

Lalla, M., D. Ferrari, and P. Frederic (2012). "Unit nonresponse errors in income surveys: A case study". In: *QUALITY & QUANTITY* 46 (6), pp. 1769–1794. DOI: 10.1007/s11135-011-9557-3.

Murat, M., D. Ferrari, and P. Frederic (2012). *Immigrant Students and Educational Systems. Cross-Country Evidence from PISA 2006*. Tech. rep.

Frederic, P. (2011). "Modeling skew-symmetric distributions using B-spline and penalties". In: *JOURNAL OF STATISTICAL PLANNING AND INFERENCE* 141, pp. 2878–2890.

Lalla, M., P. Frederic, and D. Ferrari (2011). "Students' Evaluation of Teaching Effectiveness: Satisfaction and Related Factors". In: *Statistical Methods for the Evaluation of University Systems*. Ed. by Capursi V. Attanasio M. Berlin Heidelberg: Springer, pp. 113–129.

Cipollini, A., S. Paterlini, C. Strozzi, G. Bertocchi, E. Bilancini, L. Brighi, D. Ferrari, M. Forni, P. Frederic, B. Luppi, M. Murat, A. Naghavi, B. Pistoresi, A. Ribba, and A. Rinaldi And (2010). *Real and financial economic dynamics in a globalized world: Theory, Modelling, and Policy Implications*.

M.Murat, D. Ferrari, P. Frederic, and G.Pirani (2010). *Immigrants, schooling and background. Cross-country evidence from PISA 2006.* Tech. rep.

D, Ferrari, P. Frederic, and Lalla M (2008). "Weibull regression of unemployment duration measured with error via the EM algorithm". In: *XLIV meeting of SIS (Italian Statistical Society).*

Ferrari, D., P. Frederic, and M. Lalla (2008). "Weibull regression of unemployment duration measured with error via the EM algorithm," in: *Atti della XLIV Riunione Scientifica Università della Calabria, 25 -27 giugno 2008.* Padova: CLEUP, su CD–su CD.

Frederic, P. and F. Lad (2008). "Two Moments of the Logitnormal Distribution". In: *COMMUNICATIONS IN STATISTICS. SIMULATION AND COMPUTATION* 37-7, pp. 1263–1269. DOI: 10.1080/03610910801983178.

D'Amore, G., E. Pacciani, P. Frederic, and V. Caramella Crespi (2007). "Unusual morphological features in a presumably Neolithic individual from Riparo della Rossa, Serra San Quirico (Ancona, Italy)". In: vol. 58(1). Urban & Fischer Verlag Jena:Postfach 100537, D-07705 Jena Germany:011 49 3641 626430, EMAIL: journals@urbanfischer.de, INTERNET: http://www.urbanfischer.de, Fax: 011 49 3641 626500, pp. 13–32. DOI: 10.1016/j.jchb.2006.09.001.

Frederic, P. and Paterlini S (2007). "Additive modeling for location, scale, and shape parameters of the skew normal distribution". In: *SIS Proceedings of the 2007 intermediate conference.* Padova: CLEUP, su CD–su CD.

M, Di Bacco and P. Frederic (2007a). "Aggregazioni di Probabilità". In: *Statistica e Demografia: un ricordo di Enzo Lombardo tra scienza e cultura.* Ed. by ED. GRASSI A. ROMA: TIPAR, pp. 165–174.

– (2007b). "Which company would you like to fly with?" In: *INDUZIONI* 34, pp. 87–94.

Bacco, M. Di, L. Del Panta, P. Frederic, G. Damore, and N. Lynnerup (2006). "The effect of unbalanced demographic structure on marriage and feritlty patterns in isolated populations: the case of Viking settlements in Greenland." In: *GENUS* LXII (n.1), pp. 97–119.

Frederic, P., Pacciani E, and Gori S (2006). "Age-at-death diagnosis by tooth wear: reliability evaluation. A Bayesian Model". In: *Bayesian Inference for Diagnosing Sex and Age-at-Death in Skeletal Remains.* Ed. by Di Bacco M.; Frederic P.; Scalfari F. ASTI, pp. 19–29.

M, DI BACCO, P. FREDERIC, and SCALFARI F, eds. (2006). *Applied Bayesian Statistical Studies in Biology and Medicine,* ASTI: Diffusione Immagine Editore.

Pezzulli, S., P. Frederic, S. Majithia, S. Sabbagh, E. Black, R. Sutton, and D. Stephenson (2006). "The seasonal forecast of electricity demand: A hierarchical Bayesian model with climatological weather generator". In: *APPLIED STOCHASTIC MODELS IN BUSINESS AND INDUSTRY* 22, pp. 113–125.

Frederic, P., Di Bacco M, and Catellani M (2005). "analisi predittiva bayesiana di un indicatore di qualità in un processo chimico-industriale." In: *STATISTICA APPLICATA* 17-3, pp. 339–407.

G, Damore, Di Bacco M, Del Panta L, and P. Frederic (2005). "Squilibri nella struttura demografica e riflessi sul regime nuziale e sui meccanismi di riproduzione di una popolazione isolata: il caso delle colonie vichinghe in Groenlandia (X-XV sec.)" In: *atti del convegno SIDES "Matrimoni e Famiglia in Italia" Firenze 27-28 Novembre 2003.*

Frederic, P., Damore G, and Pacciani E (2004). "Attributing a Paleoanthropological specimen to a prehistoric population: Bayesian approach with multivariate B-spline functions." In: *Applied Bayesian Statistical Studies in Biology and Medicine.* Ed. by Di Bacco; M.; Damore G.; Scalfari F. Boston / Dordrecht / London: Kluwer Academic Publisher, pp. 131–152.

Frederic, P. and Catellani M (2004). "Bayesian statistical analysis of an efficiency-quality index in a chemical industrial process: a predictive analysis". In: *atti del XLII Riunione Scientifica SIS, Bari 9-11 Giugno 2004*. Padova: CLEUP, pp. 729–732.

Bacco, M. Di, P. Frederic, and F. Lad (2003). *Learning from the Probability Assertions of Experts*. Tech. rep.

Frederic, P. (2003a). "Bayesian Discriminant Analysis using Mixture of Multivariate B-spline for Metric Data". In: *atti del Convegno Intermedio SIS 2003, "Analisi Statistica Multivariata per le Scienze Economico-Sociali le Scienze Naturali e la Tecnologia", Napoli 9-11 giugno 2003*. Padova: CLEUP, su CD–su CD.

– (2003b). "Una nota sulla probabilità condizionata". In: *INDUZIONI* 27, pp. 17–21.

Frederic, P. and Catellani M (2003). "Statistical Analysis of an Industrial Distillation Process," in: vol. 15-2. Rocco Curto, Napoli, pp. 263–273.

Damore, G., P. Frederic, and V. Vančata (2001). "Process of encephalization in hominid evolution: preliminary results of biostatic analysis of brain size phylogenetic changes". In: *ANTHROPOLOGIE* 39-2, pp. 223–234.

M, Di Bacco and P. Frederic (2001). *Introduzione al Calcolo delle Probabilità*. Vol. 355. BOLOGNA: Pitagora Editrice, pp. 1–355.

Frederic, P. and Scarsini C (1999). "Evaluation of age of death through tooth wear analysis". In: *Rivista Di Antropologia* 77, pp. 77–88.