

Curriculum Vitae

Ruggero Bellio

February 2016

Contact Information

Department of Economics and Statistics, University of Udine, via Tomadini 30/A, 33100 Udine, Italy
Tel. : +39 0432 249574; Fax: +39 0432 249595; Email: ruggero.bellio@uniud.it

Education

University of Padova, Italy	Statistics	<i>Laurea</i>	1996
KVL Frederiksberg, Denmark	Visiting Research Student		1998-1999
University of Padova, Italy	Statistics	PhD	2000

Academic Position

University of Udine, Italy	Research Fellow/Assistant Professor	2000-2007
University of Udine, Italy	Associate Professor	2007-present

Teaching

University courses on Statistical Inference, Statistical Modelling, Probability.
Short courses on Likelihood Methods, Mixed Models, Robust Statistics.

Professional Service

Associate Editor: Statistical Methods and Applications, 2012-2015.

Referee: Applied Statistics, Biometrika, Brazilian Journal of Probability and Statistics, Computational Statistics and Data Analysis, Electronic Journal of Applied Statistical Analysis, Hacettepe Journal of Mathematics and Statistics, Journal of Applied Statistics, Journal of the American Statistical Association, Journal of the Royal Statistical Society Series B, Psychometrika, Metron, Scandinavian Journal of Statistics, Statistica Sinica, Statistical Methods and Applications, Statistical Science, Statistics and Computing, Technometrics, The Canadian Journal of Statistics, The R Journal.

Scientific Committee Member: Workshop on Composite Likelihood Methods (Warwick, UK, 2008), 45th SIS Conference (Rome, IT, 2010), 28th IWSM (Palermo, IT, 2013).

Research Interests

Likelihood methods & Asymptotics; Mixed Models and their Applications; Statistical Computing; Data Mining.

Invited Talks

At meetings: BIRS Composite Likelihood Workshop, Banff (CA, 2012); Italian Statistical Society Meeting, Rome (IT, 2001); Workshop on Inference and Asymptotics, Ascona (CH, 2000).

In other Departments: Frediksberg (DK), Copenhagen (DK), Aarhus (DK), Perugia (IT), Padova (IT), Zurich (CH), Uppsala (SE), London School of Economics (UK).

PhD Student Theses Supervised

Fabio Nonino, University of Padova, 2008 (Co-Supervisor); Nicola Soriani, University of Padova, 2012 (Main Supervisor); Roberta De Vito, University of Padova, in progress (Main Supervisor).

Refereed Publications in international journals

- Bartolucci, F., Bellio, R., Salvan, A. and Sartori, N. (2016). Modified profile likelihood for panel data models. *Econometric Reviews*, accepted for publication.
- Bellio, R. and Coletto, M. (2016). Simple outlier labelling based on quantile regression, with application to the steelmaking process. *Applied Stochastic Models in Business and Industry*, accepted for publication.
- Bellio, R., Ceschia, S., Di Gaspero, L., Schaerf, A. and Urli, T. (2016). Feature-based tuning of simulated annealing applied to the curriculum-based course timetabling problem. *Computers & Operations Research*, **65**, 83–92
- Bellio, R. and Guolo, A. (2016). Integrated likelihood inference in small sample meta-analysis for continuous outcomes. *Scandinavian Journal of Statistics*, **43**, 191–201.
- Pierce, D.A. and Bellio, R. (2015). Beyond first-order asymptotics for Cox regression. *Bernoulli*, **21**, 401–419.
- Francescato, M.P., Cettolo, V. and Bellio, R. (2014). Assembling more O₂ uptake responses: Is it possible to merely stack the repeated transitions? *Respiratory Physiology & Neurobiology*, **200**, 46–49.
- Francescato, M.P., Cettolo, V. and Bellio, R. (2014). Confidence intervals for the parameters estimated from simulated O₂ uptake kinetics: effects of different data treatments. *Experimental Physiology*, **99**, 187–195.
- Bellio, R., Di Gaspero, L. and Schaerf, A. (2012). Design and statistical analysis of a hybrid local search algorithm for course timetabling. *Journal of Scheduling*, **15**, 49–61.
- Bellio, R. and Brazzale, A. R. (2011). Restricted likelihood inference for generalized linear mixed models. *Statistics and Computing*, **21**, 173–183.
- Bellio, R. and Grassetti, L. (2011). Semiparametric stochastic frontier models for clustered data. *Computational Statistics and Data Analysis*, **55**, 71–83.
- Battauz, M. and Bellio, R. (2011). Structural modeling of measurement error in generalized linear models with Rasch measures as covariates. *Psychometrika*, **76**, 40–56.
- Battauz, M., Bellio, R. and Gori, E. (2011). Covariate measurement error correction for multilevel models with application to educational data. *Journal of Educational and Behavioral Statistics*, **36**, 283–306.
- Battauz, M., Bellio, R. and Gori, E. (2008). Reducing measurement errors in student achievement estimation. *Psychometrika*, **73**, 289–302.
- Bellio, R., Greco, L. and Ventura, L. (2008). Modified quasi-profile likelihoods from estimating equations. *Journal of Statistical Planning and Inference*, **138**, 3059–3068.
- Bellio, R. (2007). Algorithms for bounded-influence estimation. *Computational Statistics and Data Analysis*, **51**, 2531–2541.
- Pierce, D. A. and Bellio, R. (2006). The effect of choice of reference set on frequency inferences. *Biometrika*, **93**, 425–438.
- Bellio, R. and Sartori, N. (2006). Practical use of modified maximum likelihoods for stratified data. *Biometrical Journal*, **48**, 876–886.
- Bellio, R. and Varin, C. (2005). A pairwise likelihood approach to generalized linear models with crossed random effects. *Statistical Modelling*, **5**, 217–227.
- Bellio, R. (2003). Likelihood methods for controlled calibration. *Scandinavian Journal of Statistics*, **30**, 339–353.

- Bellio, R. and Brazzale, A. R. (2003). Higher-order asymptotics unleashed: software design for nonlinear heteroscedastic regression. *Journal of Computational and Graphical Statistics*, **12**, 682–697.
- Bellio, R. and Gori, E. (2003). Impact evaluation of job training programmes: selection bias in multilevel models. *Journal of Applied Statistics*, **30**, 893–907.
- Bellio, R. and Sartori, N. (2003). Extending conditional likelihood in models for stratified binary data. *Statistical Methods and Applications*, **12**, 121–132.
- Bellio, R. and Brazzale, A. R. (2001). A computer algebra package for approximate conditional inference. *Statistics and Computing*, **11**, 17–24.
- Larsen, T., Møller, G. and Bellio, R. (2001). Evaluation of clinical and clinical chemical parameters in periparturient cows. *Journal of Dairy Science*, **84**, 1749–1758.
- Carlsen, C. U., Kröger-Ohlsen, M. V., Bellio, R. and Skibsted, L. H. (2000). Protein binding in deactivation of ferrylmyoglobin by chlorogenate and ascorbate. *Journal of Agricultural Food Chemistry*, **48**, 204–212.
- Bellio, R., Jensen, J. E. and Seiden, P. (2000). Applications of likelihood asymptotics for nonlinear regressions in herbicide bioassays. *Biometrics*, **56**, 1204–1212.
- Sartori, N., Bellio, R., Pace, L. and Salvan, A. (1999). The directed modified profile likelihood in models with many nuisance parameters. *Biometrika*, **86**, 735–742.

Statistical Software

R packages: `nlreg`, `hoacox`, `glmmREML`, `panelMPL`, `likelihoodAsy`.