CURRICULUM VITAE
Simone Borra
2015

Personal

Birth place and date: Rome, 12th of August 1964

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Education

1991-1993 Fellow at the Research Center of National Statistical Institute (ISTAT)

1991 Laurea magna cum laude in Statistics, 1991, University of Rome "La Sapienza".

Work experiences*:*

Current position and affiliation:

Associate Professor of Statistics, Dipartimento Impresa Governo Filosofia, University of Roma "Tor Vergata"

Previous positions:

- Associate professor in Statistics, Economics Faculty, University of Rome "Tor Vergata", 2001
- Research of Statistics, Dipartimento di Studi Economico-Finanziari e Metodi Quantitativi (SEFEMEQ), University of Rome, "Tor Vergata". 1999-2001.
- Research of Statistics, Dipartimento di economia, University of Urbino. 1993-1999
- Research assistant, Italian National Institute of Statistics, Rome, Italy, 1991-1993

2001 Associate professor in Statistics, Economics Faculty, University of Rome "Tor Vergata"

1994-2001 Researcher in Statistics, Economics Faculty, University of Urbino

Teaching Activity

- University of Rome Tor Vergata
  Postgraduate courses: Business Statistics; Statistical methods for management; Data Mining;
  Undergraduate courses: Statistics; Demography.
- *Phd courses*: Regression and Classification models
- ISAE-SSEF Master on Applied Econometrics: Non parametric methods
- School of AIDEA (the Italian Academy of Business Administration and Management): Statistical sampling and Survey (2008-2011)
- School of SIS (Italia Statistical Society):
  2009: Statistical methods to evaluate the effectiveness

2003: Multilevel regression
2001: Non parametric methods; Multilevel methods

Main Research Interests
- Nonparametric methods to measure the prediction error
- Statistical methods for Data Mining
- Statistical methods to measure the corruption
- Social network analysis

Other Activities
- 2013 Director of Master in Customer Experience & Social Media Analytics, University of Rome Tor Vergata (www.master-cesma.it)
- 2005-2013 Vice-director of Master in Procurement and Management, University of Rome Tor Vergata (www.masterprocurement.it/index.php).
- 2011-2012 Expert member of the SSPA-ISTAT Commission on Corruption Indicators.
- 2009-2011, SSPA (Scuola Superiore della Pubblica Amministrazione), researcher in the project "Culture of integrity in the Public Sector".
- Coordinator of some Schools of the Italian Statistical Society:
  2009 – Statistical methods to evaluate the effectiveness of the University system
  2003 - The multilevel methods for the health sector
  2001 - Statistical methods for Data Mining
  2001 - The multilevel methods in demography
- Member of the COST action ICO702 " Combining Soft Computing Techniques and Statistical Methods to Improve Data Analysis Solutions", Working group C "Statistics with Incomplete and Imperfect Data" (2008-2013)
- Member of PRIN research groups ((Progetti di ricerca di interesse nazionale, financed by the MIUR)
- Member of the international research group "Virtual Library for Computer Assisted Training in Statistics" approved in the 5th FP of EU (2000-2003).
- Guest Editor
  (with R. Rocci, M. Vichi, M. Schader) of *Advances in classification and data analysis*, Springer-Verlag, Berlin, series "Studies in Classification, Data Analysis and knowledge Organization", 2001;
  (with A. Di Ciaccio) of Computation Statistical and Data Analysis vol.38, issue 4, 28 February 2002, on Nonlinear methods and Data mining
- Referee for: CSDA; SMA - Journal of Italian Statistical Society; Metron; Labour.
- Member of the following Societies: Italian Statistical Society; International Federation of Classification Societies;

Scientific Coordinator of Statistical surveys
- Assoconsult (the Italian Consulting Association) 2010 - 2013: Survey on the *Management Consulting in Italy - editions 2009/10; 2010/11; 2011/12; 2011/13*
- *Fondazione Promo P.A. - Tor Vergata - Scuola Superiore Pubblica Amministrazione* 2010-2013: Survey on the Public Procurement:
    2013 - Come appalta la PA, I rapporto nazionale

2012 - Come acquista la PA, III rapporto nazionale

2011 – Come acquista la PA, II rapporto nazionale

2010 – Come acquista la PA, I rapporto nazionale

- 2008 - World Bank and ICE, Survey *on the decrease of the participation of the Italian enterprises to international tenders.*
- 2007 - Società Autostrade: Survey *Customer satisfaction on the service areas of italian highways.*
- 2004 - Municipality of Rome: Survey to *estimate the level and the quality of the services of AMA S.p.A.*
- 2003 and 1999 - Autority of Municipality of Rome: I e III Survey "10 minuti per migliorare la città"

Selected Publications

- "La tutela della riservatezza dei dati demografici: proposte e problemi aperti" (with F. Crescenzi), Istat, Atti delle seconde giornate di studio sugli Avanzamenti metodologici e le Statistiche Ufficiali, SIS-ISTAT, Roma 9-10 dicembre 1992, pagg. 405-426.
- "The Control of Disclosure Risk. A Simple Indicator to Select Variables Categories for the Aggregation" (with F. Crescenzi), Bullettin of the International Statistical Institute, Contributed Papers, 49th Session, Firenze 1993, Vol.1, pagg. 149-150.
- "Protecting Enterprises Data Against Disclosure. A Procedure to Aggregate Variables Categories" (with F. Crescenzi), Bullettin of the International Statistical Institute, Contributed Papers, 49th Session, , Firenze 1993, Vol.1, pagg. 147-148.
- Metodologie per il controllo del rischio di violazione del segreto statistico nella diffusione di dati (with F. Crescenzi), in *La produzione di statistiche ufficiali*, a cura di A. Cortese, B. Colombo, L. Fabbris, CLEUP, 1993.
- "Some Techniques to Control Disclosure Risk" (with F. Crescenzi), negli atti del convegno IASC "Public Statistical Information Systems", Statistica Applicata, Rocco Curto Editore, Vol. 6, n. 3, Luglio-Settembre 1994.
- "Strategie di protezione dei dati dal rischio di violazione della riservatezza" (with G. Coccia, F. Crescenzi), atti della XXXVII Riunione Scientifica della SIS, Vol.2, 1994.
- "Standard Microdata Files on 1991 Italian Population Census" (with C. Ceccarelli, G. Coccia, F. Crescenzi), Atti della 2nd International Seminar in Statistical Confidentiality, STATEC, Luxembourg 28-30 Novembre 1994.
- "Models for Non-Response from Panel-Data: an Application to the Italian Survey on the Occupational Possibilities of Graduates" (with M. Miccichè), Quaderni di Economia, Matematica e Statistica, Facoltà di Economia e Commercio, Università di Urbino, n.40, Settembre 1996.
- "L'approccio fattoriale per l'integrazione delle dimensioni micro e macro" (with R. Rocci), Quaderni di Economia, Matematica e Statistica, Facoltà di Economia e Commercio, Università di Urbino, n.41, Ottobre 1996.
- "Non-parametric regression models for conjoint analysis of qualitative and quantitative data" (with A. Di Ciaccio), in "Advances in data science and classification", (A. Rizzi, M. Vichi, H.H.Bock eds), Springer Verlag, Berlin, 1998.
- "Reduction of Prediction Error by Bagging Projection Pursuit Regression" (with A. Di Ciaccio), *Book of short papers*, CLADAG99, Roma 5-6 luglio 1999.

- "Bagging and Boosting performance in Projection Pursuit Regression" (with A. Di Ciaccio), in Bullettin of the International Statistical Institute - ISI99, Contributed papers of, Tome LVIII, book1, 1999.
- "Using qualitative information and neural networks for forecasting purposes in finantial time series" (with A. Di Ciaccio), in "Classification and Data Analysis, Theory and Application" (Vichi and Opitz eds), Springer, Berlin, 1999.
- "Aggregazione di funzioni di approssimazione nei metodi regressive non parametrici" (with A. Di Ciaccio), atti della XL Riunione Scientifica della SIS, Firenze, 2000.
- "Improving nonparametric regression methods by bagging and boosting" (with A. Di Ciaccio), proceedings di NMDM2000, 25-26 settembre 2000, Roma, CISU.
- S. Borra, A. Di Ciaccio (2001), Reduction of prediction error by bagging projection pursuit regression, in *Advances in classification and data analysis*, S. Borra, R. Rocci, M. Vichi, M. Schader editors, Springer-Verlag, Berlin, pp.241-248.
- S. Borra, A. Di Ciaccio (2001), Performance evaluation of Bagging and Boosting in nonparametric Regression, *Metron*, Vol. LVIII, n.3-4, pp. 141-156.
- S. Borra, A. Di Ciaccio (2002), Improving nonparametric regression methods by bagging and boosting, *Computational Statistics and Data Analysis*, Vol.38, n.4, pp. 407-420
- "Comparative Performance Of Credit Scoring Models Using Aggregated Predictors" (with S. Caiazza), in *Data Mining III*, edited by A. Zanassi,C.A. Brebbia et. al., WIT, 2002.
- S. Borra, A. Di Ciaccio, *Tools to compare the prediction capability of classifiers and to evaluate the relevance of predictors*, proceedings CLADAG 2003, Cleub, 2003.
- S. Borra, A. Di Ciaccio (2004), Methods to compare nonparametric classifiers and to select the predictors, in *New Developments in Classification and Data Analysis*, M. Vichi, P. Monari, S. Mignani, A. Montanari editors, Springer-Verlag, Berlin, pp.11-20.
- S. Borra, S. Chiavarini (2005), Multilevel models for perceived quality analysis: the case of local public transport of Rome, *Statistica & Applicazioni*, Vol. III, Special Issue n.1, pp.45-52.
- S. Borra, S. Caiazza, S. Di Giacomo (2006), Nonparametric techniques to validate credit classification models: an empirical analysis, in *Transparency, Governance and Markets*, M. Bagella, L. Becchetti, I. Hassan eds., Elsevier, pp.319-342.
- S. Borra (2006), Aggregated Classifiers and Variable Selection to Improve Prediction Capability, in Proceedings of the XLIII Scientific Meeting, SIS, Plenary and Invited Sessions, CLEUP, pp.243-254.
- S. Borra, A. Di Ciaccio (2007), Measuring the prediction error: a comparison of cross-validation, bootstrap and hold-out methods, in Proceedings of IASC07, eds. Ferreira C., et. al.
- S. Borra, A. Di Ciaccio (2008), The estimation of prediction error for non parametric regressione: a simulation study, in Proceedings of ERCIM08.
- S. Borra, A. Di Ciaccio (2008), Estimators of extra-sample error for non-parametric methods. A comparison based on extensive simulations, Technical Report n.19, Dip. Statistica, Probabilità e Statistiche Applicate, Univ. di Roma Sapienza.
- S. Borra, A. Di Ciaccio (2010), Measuring the prediction error. A comparison of cross-validation, bootstrap and covariance penalty methods, *Computational Statistics and Data Analysis*, Vol.54, issue 12, pp. 2976-2989.
- S. Borra, S. Celant (2011), The use of relational data in assessing internal effectiveness: a model on academic achievement, S*ocial Indicators Research*, issue: Effectiveness of University system and students' quality of life: the power of social links, eds. Stella Iezzi (*forthcoming*).

Book texts

• (with A. Di Ciaccio) *Statistica. Metodologie per le scienze economiche e sociali*, 3° edition, book and Website, McGraw-Hill, 2013.

• (with A. Di Ciaccio) *Introduzione alla Statistica descrittiva*, book and ipermedia, McGraw Hill, serie di matematica, 1996.