

EUROPEAN CURRICULUM VITAE



PERSONAL INFORMATION

Name **GOLIA, Silvia**
Address **C.DA SANTA CHIARA, 50 – 25122 BRESCIA, ITALY**
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Nationality Italian

WORK EXPERIENCE

- Dates (from – to) From 2005
- Name and address of employer University of Brescia
Department of Economics and Management
(before 2013: Department of Quantitative Methods – Faculty of Economics)
C.da S. Chiara, 50 - 25122 Brescia, Italy
- Type of business or sector University
- Occupation or position held Assistant Professor, Statistics
- Main activities and responsibilities Research activity on methodological and applied statistics
Teacher of several courses (at the moment: *Statistics for Risk Management and Statistics*;
formerly: *International Economic Statistics, Financial Time Series, Statistical Inference*).
Teacher of *phd* courses (*Statistical Inference and Probability and Statistical Models and Forecasting*)
Lecturer of several courses with statistical contents

- Dates (from – to) 2001-2004
- Name and address of employer University of Brescia
Department of Quantitative Methods – Faculty of Economics (after 2013: Department of
Economics and Management)
C.da S. Chiara, 50 - 25122 Brescia, Italy
- Type of business or sector University
- Occupation or position held Researcher Fellow, Statistics
- Main activities and responsibilities Research project: Recent developments in nonlinear time series analysis of economic and
financial data. (Heads of the project: Prof. L. Dancelli and Prof. A. Mazzali)

- Dates (from – to) 2000
- Name and address of employer European Institute of Oncology
Division of Epidemiology and Biostatistics
Via Ripamonti, 435 - 20141 Milano, Italy
- Type of business or sector Hospital
- Occupation or position held Researcher Fellow, Statistics
- Main activities and responsibilities Research activity on medical statistic

- Dates (from – to) February-June 1998
- Name and address of employer Institute for Pure and Applied Physical Science, University of California San Diego (USA)
- Type of business or sector University
- Occupation or position held Visiting scholar in Statistics
- Main activities and responsibilities Research Project: Detection and Classification of Chaotic Dynamical Systems. (Head of the
project: Dr. J. Kadtko)

EDUCATION AND TRAINING

- Dates (from – to) 1996-1999
- Name and type of organisation providing education and training University of Perugia, Italy
- Principal subjects/occupational skills covered Statistical Inference, Mathematical statistics, Probability theory, Data Analysis, Sample Theory, Stochastic Processes, Multivariate models, Time series analysis; Programming languages for computational statistics.
- Title of qualification awarded Ph.D. In Statistical and Mathematical Methods for the Economic and Social Research
- Level in national classification (if appropriate)
- Dates (from – to) 1988-1996
- Name and type of organisation providing education and training University of Padova, Italy – Faculty of Statistics
- Principal subjects/occupational skills covered Several courses with statistic and economic contents
- Title of qualification awarded 'Dottore' in Economic Statistics
- Level in national classification (if appropriate) Laurea

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills GOOD
- Writing skills GOOD
- Verbal skills GOOD

SPANISH

- Reading skills BASIC
- Writing skills BASIC
- Verbal skills BASIC

SOCIAL SKILLS AND COMPETENCES

Living and working with other people, also in multicultural environment (member of the research group of DMS StatLab - Data Methods and Systems Statistical Laboratory, Department of Economics and Management - University of Brescia, several research projects at University of Brescia, one visiting fellowship at the University of California at San Diego, USA, at the 'Institute for Pure and Applied Physical Science' in 1998)

SCIENTIFIC MEMBERSHIPS AND MAIN COLLABORATIONS

From 2006: Ordinary member of the Italian Statistical Society (SIS)

From 2013: Member of the DMS StatLab – Data Methods and Systems Statistical Laboratory, University of Brescia

From 2013: Member of the Editorial Secretariat of the scientific SCOPUS journal *Statistica&Applicazioni* and from 2016 Coordinator of the Editorial Staff

Collaboration with the Philosophy, Education and Psychology Department of the University of Verona

Collaboration with the following scientific journals with review activity: *Applied Psychological Measurement*, *Electronic Journal of Applied Statistical Analysis*, *Journal of Multivariate Analysis*, *Statistica&Applicazioni*, *Transportation Research Part C: Emerging Technologies*, *Journal of Applied Statistics*, *Journal of Educational Measurement*

ORGANISATIONAL SKILLS
AND COMPETENCES

CO-ORGANIZATION OF CONFERENCES AND WORKSHOPS

2015 Bayesian Networks at work, invited speakers: R. Kennet (KPA Ltd., Raanana, Israel, University of Turin, Italy and Center for Risk Engineering, NYU Poly, New York, USA) e M. Scutari (University of Oxford, UK), workshop organized at University of Brescia, May 2015.

2019 Member of the Scientific Program Committee and Local Committee of the Scientific Conference on Statistics for Health and Well-being organized at Brescia university, September 2019.

2013 Member of the Local Committee of SIS 2013 International Meeting Advances in Latent Variables Methods, Models and Applications, organized at University of Brescia, June 2013;

2009 Member of the Local Committee of IES2009 - Innovazione e Società 2009, organized at University of Brescia, June 2009.

ORGANIZATION OF VISITING PERIODS OF EUROPEAN SCHOLARS

2015 M. Scutari (University of Oxford, UK)

2017 R. Kennet (KPA Ltd., Israele)

ORGANISATIONAL ACTIVITY IN PhD COURSES

From 2017 Member of the Teaching committee of the PhD in Analytics for Economics and Management (AEM), University of Brescia

From 2013 to 2016 Member of the Teaching committee of the PhD in Analytics for Economics and Business (AEB), University of Bergamo and Brescia

TECHNICAL SKILLS
AND COMPETENCES

2018: Award FFABR "Fondo per il finanziamento delle attività base di ricerca" (Ministry of Education, Universities and Research, Italy)

Scientific communication (speaker at several international and national conferences)

Reviewer activity for International scientific journals

Computer skills:

Good command of statistical programming language R, Matlab

Good command of Microsoft Office tools and LaTeX

Teacher at the PhD in Analytics for Economics and Management (AEM), University of Brescia, of the following courses:

From 2017/2018 Statistical Inference and Probability (mandatory course)

From 2017/2018 Statistical Models and Forecasting (optional course for the statistical area)

Teacher at the University of Brescia (Dept. of Economics and Management, previously Faculty of Economics) of the following courses:

From 2009/10 Statistics for Risk Management

2009/10 and 2010/11 International Economic Statistics

2007/08 and 2008/09 International Economic and Social Statistics

From 2005/06 to 2008/09 Financial Time Series

2006/07 Statistical Inference

Lecturer at the University of Brescia (Dept. of Economics and Management, previously Faculty of Economics) of the following courses: Statistical Inference, Statistics for Finance, Statistics for Risk Management, Statistics and Probability, Financial Time Series, Business Statistics, International Economic and Social Statistics.

Lectures on Rasch models, ARIMA-GARCH models.

Supervisor of some Master's thesis

1. SCIENTIFIC JOURNALS

International Journals with Impact Factor

1. Carpita M., Golia S. (2020). "Discovering associations between players' performance indicators and matches' results in the European Soccer Leagues". *Journal of Applied Statistics*, Accepted for publication, doi: 10.1080/02664763.2020.1772210
2. Golia S., Brentari E, Carpita M. (2017). "Causal reasoning applied to sensory analysis: The case of the Italian wine". *Food Quality and Preference*, 59, 97-108.
3. Golia S. (2016). "A proposal for categorizing the severity of nonuniform differential item functioning: the polytomous case". *Communication in Statistics. Theory and Methods*, 45, 236-251
4. Golia S. (2015). "Assessing the impact of uniform and nonuniform differential item functioning items on Rasch measure: the polytomous case". *Computational Statistics*, 30(2), 441-461.
5. Golia S., Simonetto A. (2015). "Treating ordinal data: a comparison between rating scale and structural equation models". *Quality and Quantity*, 49(3), 903-915.
6. Carpita M., Golia S. (2012). "Measuring the quality of work: the case of the Italian social cooperatives". *Quality and Quantity*, 46(6), 1659-1685.
7. Boyle P., Golia S., Daly P., Johnston P.G., Robertson C. (2003). "Cancer mortality in Ireland, 1926-1995". *Annals of Oncology*, 14, 323-332.
8. Stenzl A., Jarolim L., Coloby P., Golia S., Bartsch G., Babjuk M., Robertson C. (2001). "Urethra-sparing cystectomy and orthotopic urinary diversion in women with malignant pelvic tumors". *Cancer*, 92, 1864-1871.
9. Golia S., Sandri M. (2001). "A Resampling Algorithm for Chaotic Time Series". *Statistics and Computing*, 11, 241-255.
10. Golia S., Sandri M. (1997). "Resampling Chaotic Time Series". *Physical Review Letters*, 78(22), 4197-4201.

International Journals without Impact Factor, but indexed in SCOPUS

11. Golia S., Simonetto A., Malo B, Gilioli G. (2019). "A new tool to assess the concept of food quality in children: a validation study". *Statistica & Applicazioni*, XVII(1), 63-84,
12. Golia S., Pedrazza M., Berlanda S., Trifiletti E. (2017). "The interplay of attachment avoidance and anxiety in affecting nurse's caregiving style and emotional exhaustion". *TPM - Testing, Psychometrics, Methodology in Applied Psychology*, 24(3), 437-457.
13. Golia S. (2015). "On the interpretation of the uncertainty parameter in CUB models". *Electronic Journal of Applied Statistical Analysis*, 8, 312-328.
14. Golia S., Pedrazza M. (2014). "Assessing the relational competence as the core dimension of social worker's perceived self-efficacy through the Rasch model". *Electronic Journal of Applied Statistical Analysis*, 7(1), 58-80.
15. Golia S. (2012). "Differential Item Functioning classification for polytomously scored items". *Electronic Journal of Applied Statistical Analysis*, 5(3), 367-373.
16. Golia S. (2011). "The impact of questionnaire size on the accuracy of the Rasch measure", *Journal of Applied Sciences*, 11(4), 707-712.
17. Brentari E., Golia S. (2008). "Measuring job satisfaction in the social service sector with the Rasch model". *Journal of Applied Measurement*, 9(1), 45-56.

International Journals without Impact Factor

18. Golia S. (2010). "The assessment of DIF on Rasch measures with an application to job satisfaction". *Electronic Journal of Applied Statistical Analysis: Decision Support Systems and Services Evaluation*, 1(1) 16-25.

National Journals

19. Golia S. (2012). "Evaluate the magnitude of non uniform DIF for Rasch model: the polytomous case". *Quaderni di Statistica*, 14, 129-132.
20. Brentari E., Golia S. (2007). "Unidimensionality in the Rasch model: How to detect and interpret". *Statistica*, 67, 3, 253-261.
21. Brentari E., Golia S., Manisera M. (2007). "Models for categorical data: a comparison between the Rasch model and Nonlinear Principal Component Analysis". *Statistica & Applicazioni*, V, 1, 53-77.
22. Golia S. (2001). "I processi FIGARCH: un'applicazione all'indice MIB 30". *Statistica Applicata*, 13, 4, 393-412.

- Golia S. (2001). "Long memory effects in ultra-high frequency data". *Quaderni di Statistica*, 3, 43-52.

2. BOOK CHAPTERS

- Golia S. (2011). "Misura oggettiva dell'autoefficacia percepita tramite il Modello di Rasch". In: F. Bressan, M. Pedrazza, E. Neve (Eds.), *Il percorso formativo dell'assistente sociale* (pp. 219-230). FrancoAngeli, Milano.
- Brentari E., Golia S. (2009). "Misure oggettive della qualità del lavoro soggettiva nelle cooperative sociali". In M. Carpita (Ed.), *La qualità del lavoro nelle cooperative sociali – Misure e modelli statistici* (pp. 95-126). FrancoAngeli, Milano.
- Brentari E., Golia S., Manisera M. (2008). "Analyzing ordinal data to measure customer satisfaction: a comparison between the Rasch Model and CatPCA". In L. D'Ambra, P. Rostirolla, M. Squillante (Eds.), *Metodi, Modelli, e Tecnologie dell'informazione a Supporto delle Decisioni. Parte prima: metodologie* (pp. 55-62). Franco Angeli, Milano.

3. PROCEEDINGS

- Silvia Golia, Paola Zola (2019). "A microblog auxiliary part of speech tagger based on Bayesian Networks. In: CLADAG 2019 Book of Short Papers. p. 234-237, ISBN: 978-88-8317-108-6, Cassino, 11-13/10/2019.
- Simonetto A., Golia S., Malo B., Gilioli G. (2019). "Food quality perception in children: a comparison between Bayesian Network and Structural Equation Modelling. In: ASA CONFERENCE 2019 - BOOK OF SHORT PAPERS Statistics for Health and Well-being. p. 193-196, Cleup, ISBN: 978-88-5495-135-8, Brescia, 25-27/9/2019.
- Golia S., Simonetto A., Malo B., Gilioli G. (2019). "The concept of food quality in children: a survey on middle school students in Brescia. In: *Statistical Methods for Service quality evaluation..* p. 105-108, Cuzzolin, ISBN: 978-88-86638-65-4, Roma, 4-5/7/2019.
- Golia S., Carpita M. (2018). "On classifiers to predict soccer match results". In: *ASMOD 2018 Proceedings of the International Conference on Advances in Statistical Modelling of Ordinal Data.* p. 125-132, FedOAPress - Federico II Open Access University Press, ISBN: 978-88-6887-042-3, Napoli, 24-26/10/2018, doi: 10.6093/978-88-6887-042-3.
- Carpita M., Golia S. (2018). "Exploring the Kaggle European Soccer database with Bayesian Networks: the case of the Italian League Serie A". In: *SIS2018 - 49th Meeting of the Italian Statistical Society*, p. 1-8, Pearson, ISBN 9788891910233, Palermo, 20-22/06/ 2018.
- Golia S. (2017). "Discretization of measures:an IRT approach". In: F. Greselin, F. Mola, M. Zenga (eds.), *CLADAG 2017 Book of short papers*, p. 1-6, Mantova: Universitas Studiorum, (Electronic Book), ISBN 78-88-99459-71-0, Milano, 13-15/09/2017
- Golia S. (2017). "A proposal of a discretization method applicable to Rasch measures". In: A. Petrucci, R. Verde (eds.), *SIS 2017. Statistics and Data Science: new challenges, new generations. Proceedings of the Conference of the Italian Statistical Society*, p. 519 -523, Firenze University Press, (Electronic Book), ISBN 978-88-6453-521-0, Firenze, 28-30/06/2017
- Brentari E., Carpita M., Golia S. (2016). "Causal reasoning applied to sensory analysis: the case of the Italian wine". In: *E-PROCEEDINGS AGROSTAT 2016*, Losanna (Svizzera), 21-24/3/2016
- Brentari E., Carpita M., Golia S. (2015). "Inspecting the quality of Italian wine through causal reasoning". In: *CLADAG 2015 BOOK OF ABSTRACTS*, p. 521-524, CAGLIARI:CUJEC, (Electronic Book), ISBN: 9788884679499, Santa Margherita di Pula (CA), 08-10/10/2015
- Golia S., Simonetto A. (2013). "A comparison between SEM and Rasch model: the polytomous case". In: T. Minerva, I. Morlini, F. Palumbo (eds.), *Cladag 2013. 9th Meeting of the Classification and Data Analysis Group. Book of Abstracts* (Electronic Book), ISBN: 9788867871179, Modena, September 18-20 2013.
- Golia S., Simonetto A. (2013). "Latent Variable Analysis with Ordinal Data: Comparing the Structural Equation and the Rating Scale Models". In: E. Brentari, M. Carpita (eds.), *Advances in Latent Variables – Methods, Models and Applications* (Electronic Book), ISBN: 978-88-343-2556-8, Brescia, June 19-21 2013.
- Golia S. (2012). "A proposal for categorizing non uniform DIF in polytomous items". In: A.Okada, D. Vicari, G. Ragozini (eds.), *Analysis and Modeling of Complex Data in Behavioural and Social Sciences - Book of Short Papers ICS-CLADAG 2012*, CLEUP, ISBN: 978-88-6129-916-0, Anacapri, 3-4 Settembre 2012.
- Golia S. (2010). "Differential item functioning analysis with more than one population variables." In: *Short Paper Book, Mtisd 2010. Pescara, September 12-15 2010.*

14. Golia S. (2010). "The evaluation of the impact of uniform and nonuniform differential item functioning on Rasch measure". In: Rasch Conference - Book of Abstracts, Copenhagen, June 13-16 2010.
15. Golia S. (2009). "The impact of uniform and nonuniform differential item functioning on Rasch measure". In: Book of Short Papers CLADAG 2009, CLEUP, 645-648, ISBN: 978-88-6129-406-6, Catania, September 9-11 2009.
16. Golia S. (2009). "Assessment of DIF on Rasch measures applied to job satisfaction". In: Atti del Convegno Innovazione e Società - IES2009, ISBN: 978-88-88971-17-9, Brescia, June 24-26 2009.
17. Golia S. (2008). "On the stability of the Rasch measure". In: MTISD 2008 Methods, Models and Information Technologies for Decision Support Systems, ISBN: 978-88-8305-060-2, Lecce, September 18-20.
18. Brentari E., Golia S. (2008). "Measuring the quality of work using the Rasch Model". In: Atti XLIV Riunione Scientifica SIS, Arcavacata (CS), June 25-27 2008.
19. Brentari E. Golia S. (2007). "Exploring unidimensionality in the Rasch model". In: Valutazione e Customer Satisfaction per la qualità dei servizi, Roma, April 12-13 2007.
20. De Luca G., Golia S. (2007). "The Autocorrelation Function for Squares White Noises". In: P. Mantovan, A. Pastore, S. Tonellato (eds), S.Co.2007, Complex models and computational intensive methods for estimation and prediction, ISBN: 9788861291140, Venezia, September 6-8 2007.
21. Brentari E., Golia S., Manisera M. (2006). "Analyzing ordinal data to measure customer satisfaction: a comparison between the Rasch Model and CatPCA". In Atti del Convegno MTISD'06 - Metodi, modelli, e tecnologie dell'informazione a supporto delle decisioni, RCE Edizioni, ISBN: 88-8399-080-3. Procida (NA), September 28-30 2006.
22. Bagliani M., Bravo G., Dalmazzone S., Golia S. (2006). "A consumption-based approach to environmental Kuznets curves using the ecological footprint indicator". In: Proceedings of the Third World Congress of Environmental and Resource Economist, Kyoto, July 3-7 2006
23. Golia, S. (2002). "Evaluating the GPH estimator via bootstrap technique". In: W. Hardle, B. Ronz (eds), COMPSTAT 2002 - Proceedings in Computational Statistics, Physica-Verlag, ISBN: 9783790815177, Berlin, August 24-28 2002.
24. De Luca G., Golia S. (2001). "The direction of a price change and the persistence of intradaily durations". In: Atti del convegno Modelli complessi e metodi computazionali per la stima e la previsione, S.Co.2001, Bressanone (BZ), September 24-26 2001.

5. OTHER PUBLICATIONS

1. Golia S. (2019). "Sustainable Development Goals Interactions: the Country Dimension" and "Sustainable Development Goals Interactions: the Regional Dimension": two reports presented at the Technical Workshop "Analytical Tools for Capacity Building on Quantitative Methods for SDG Interactions and Integration in National Development Strategies and Integrated Planning", organized at Addis Ababa (Ethiopia) by the Department of Economic and Social Affairs (DESA); Economic Analysis and Policy Division (EAPD); and Economic Commission for Africa (ECA), Macroeconomics and Governance Division of the United Nations (19/12/2019).
2. Golia S. (2017). "Quanto è soddisfatto del suo lavoro il signor Rossi? Storia di una misura oggettiva per un costrutto latente". *Statistica & Società*, anno V, numero 4/2017 (<http://www.rivista.sis-statistica.org/cms/?p=398>).
3. Carpita M., Golia S. (2008). "Subjective Measures of Quality of Work in the Italian Social Cooperatives". *Rapporti di ricerca del Dipartimento Metodi Quantitativi, Università di Brescia, Facoltà di Economia*, 312.
4. Golia S. (2007). "Allegato n.3: elaborazioni statistiche. In: A. De Giuli, P. Perazzolo (eds), *Durabilità delle opere in legname nelle sistemazioni idraulico forestali. Una proposta metodologica*". Direzione Foreste ed Economia Montana, Regione del Veneto, 61-94.
5. Bagliani M., Bravo G., Dalmazzone S., Golia S. (2006). "A worldwide time series analysis of the relationship between economic growth and environmental pressure". *Rapporti di ricerca del Dipartimento Metodi Quantitativi, Università di Brescia, Facoltà di Economia*, 274.
6. Brentari E., Golia S. (2005). "The Rasch model and the FIVOL-FEO survey". *Rapporti di ricerca del Dipartimento di Metodi Quantitativi, Università di Brescia, Facoltà di Economia*, 257.
7. Golia S. (2004). "Long Memory Processes, a resampling method". *Rapporti di ricerca del Dipartimento di Metodi Quantitativi, Università di Brescia, Facoltà di Economia*, 243.
8. Golia S. (2001). "Proprietà statistiche dello stimatore GPH tramite ricampionamento del periodogramma". *Rapporti di ricerca del Dipartimento di Metodi Quantitativi, Università di Brescia, Facoltà di Economia*, 203.

ANNEXES

No attached annexes