CURRICULUM VITAE

INFORMAZIONI PERSONALI

Surname and Name	**POLI, ELENA**
E-mail	**elena.poli@unibocconi.it**
Nationality	Italian
Birth date	05, 07, 1974

ISTRUZIONE E FORMAZIONE

• Date	1993 – Scientific Maturity
• Name and type of educational or training institution	Liceo Scientifico Statale "Moretti", Gardone V.T, Brescia
• Principal subjects / professional skills covered	Scientific skills, IT, language skills
• Title	Scientific Diploma
• Date	October 1998 – Master Degree in Economia e Commercio
• Name and type of educational or training institution	Università degli Studi di Brescia
• Principal subjects / professional skills covered	Political Economy;
• Title	Doctor in Economia e Commercio , Grade: 110/110
• Date	January 1999 – Beginning of PhD in Methodological Statistics, XIV ciclo, coordinator Prof. M. Zenga.
• Name and type of educational or training institution	Università degli Studi di Trento and Università degli Studi Milano "Bicocca"
• Principal subjects / professional skills covered	Methodological and Applied Statistics
• Date	June-October 2001 – Period of study at the University of Southampton, UK, to start a collaboration with Prof. J.W "Mac" MacDonald in the preparation of the PhD thesis
• Name and type of educational or training institution	Department of Social Statistics, Institute of Social Sciences, University of Southampton, Southampton (UK)
• Principal subjects / professional skills covered	In-depth Statistical Analysis of Hierarchical Data with Discrete and Categorical Response Variables, Deepening of the simulation methods of Markov Chain Monte Carlo

• Date	February 2002 – Discussion of PhD Thesis in Methodological Statistics
• Name and type of educational or training institution	Università degli Studi di Trento, Università degli Studi di Milano "Bicocca"
• Principal subjects / professional skills covered	Topic "*Simulation Methods for Multilevel Analysis*", supervisors: Prof. E. Brentari, Prof. M. Carpita, Prof.ssa M. Civardi, Prof. J.W. "Mac" MacDonald, Prof. Skinner
• Title	Doctor of Research in Methodological Statistics

PERSONAL SKILLS AND COMPETENCES

FIRST LANGUAGE	**ITALIAN**
OTHER LANGUAGES	
	ENGLISH
• Reading ability	VERY GOOD
• Writing ability	VERY GOOD
• Oral ability	VERY GOOD
	FRANCESE
• Reading ability	GOOD
• Writing ability	GOOD
Oral ability	GOOD
	SPAGNOLO
• Reading ability	GOOD
• Writing ability	GOOD
• Oral ability	GOOD

TECHNICAL SKILLS AND COMPETENCES	Excellent knowledge of Windows. Excellent knowledge of Office package (Word, Excel, Powerpoint), Internet Explorer, Outlook Express, OMR Remark Office. Working knowledge of programming languages (R, S), statistical packages (Gauss, SPSS, Systat, S-Plus, I-Miner, MlWin, Bugs, Mixor).

- 2007-2008 Coordination of the Survey on "Evaluation of the Quality System in the Italian Social Enterprise", carried out as part of the INGENIO Research Project which involved 1,300 Social Cooperatives scattered throughout Italy, members of the CGM Consortium and enjoying CISQ-CERT certification. Coordination of the survey addressed to the employees on the "Satisfaction of the workers in the Lombardy Nurseries", carried out within the INGENIO Research Project.
- 2005-2007 Coordination of the five university sites in the operational and technical management of the National Survey "ICSI2005 - Italian Social Cooperatives Survey", financed by MURST within the PRIN2004.
- 2006 Coordination of the surveyors of the "ICSI2005 - Italian Social Cooperatives Survey" for the north-west of Italy.
- 2007 Coordination of the Survey on Social Cooperatives in Brescia, funded by the Cariplo Foundation.

PARTECIPATION IN SCIENTIFIC RESEARCH GROUPS:

- Local funds for research ex 60% 2005, "Minimax local regression in time series". Responsible: Prof. Mazzali Aride, University of Brescia.
- Local Funds for Research ex 60% 2005, "Statistics for the Evaluation of Public Utility Services". Responsible: Prof. Carpita Maurizio, University of Brescia.
- COFIN 2004, Title of National Research Program: "The Economic Role of Nonprofit Organizations: New Theoretical Developments and Empirical Verifications, National Coord. National coordinator: Prof. Borzaga Carlo, University of Trento. Specific title of the Brescia unit: Misurare la qualità del lavoro nelle organizzazioni nonprofit (Measuring the quality of work in nonprofit organizations), Head: Prof Carpita Maurizio.
- Local funds for research ex 60% 2004, "La previsione non parametrica delle serie storiche", Responsible: Prof. Mazzali Aride, University of Brescia.
- Local funding for research ex 60% 2004, "Analysis of complex data", Responsible: Prof. Brentari Eugenio, University of Brescia.
- Local funding for research ex 60% 2003, "Statistical methods for the analysis of ranks", Responsible: Prof. Mazzali Aride, University of Brescia.
- Local funds for research ex 60% 2003, "Monitoring the careers of the students of the Faculty of Economics of the University of Brescia", Responsible: Prof. Carpita Maurizio, University of Brescia.
- COFIN 2001, Title of the National Research Program: Statistical Models, Microdata and Administrative Sources: Methodological Problems and Applications in the Health Care and Economic-Social Fields for Decision Making, National Coord. National coordinator: Prof. Gori Enrico, University of Udine. Specific title of the Brescia unit: Multilevel models for the evaluation of the quality of work in the social services sector, Scientific Coordinator of the research unit: Prof Carpita Maurizio.
- Local funds for research ex 60% 2001, "Multilevel analysis of the quality of work in the field of public utility services", Responsible: Prof. Carpita Maurizio, University of Brescia.
- Local funds for research ex 60% 2000, "Standardized indicators for the analysis of university students' careers", Responsible: Prof. Dancelli Livia, University of Brescia.
- COFIN 1999, Title of national research program: "Evaluation of quality, effectiveness and efficiency in personal services, with particular reference to education and health care", National Coord. Prof. Gori Enrico, University of Udine. Specific title of the Brescia unit: "Statistical methods

for evaluating the efficiency and effectiveness of university education", Scientific Coordinator of the research unit: Prof. Dancelli Livia.

- Local funds for research ex 60% 1999, "Comparative analysis between two recent tests for the Beherens-Fisher problem: the Brentari, Carpita, Dancelli test and the Bhoj test", Responsible: Prof.ssa Dancelli Livia, University of Brescia.
- Local funds for research ex 60% 1998, "Models for the analysis of the duration of university studies", Responsible: Prof.ssa Dancelli Livia, University of Brescia.

TEACHING ACTIVITIES	a.y. 2009-2022	Professor (under contract and since 2020 as Lecturer), course: *Statistica*, Undergraduate School, CLEF, Bocconi University, Milano.
	a.y. 2011-2022	Professor (under contract and since 2020 as Lecturer), course: *Analisi dei dati*, Graduate School, AFC, Bocconi University, Milano.
		Professor (under contract and since 2020 as Lecturer), course: *Statistica*, Undergraduate School, CLEAM, Bocconi University, Milano.
	a.y.. 2019-2022	Professor (under contract and since 2020 as Lecturer), course: *Fondamenti di Business Analytics*, Graduate School, Management, Bocconi University, Milano.
	a.y.. 2014-2022	Professor (under contract), course: *Mathematics and Statistics* Undergraduate School, BEMACS, Bocconi University, Milano.
	a.y. 2018-2019 a.y. 2020-22	Professor (under contract and since 2020 as Lecturer), course: *Metodi Quantitativi per la Finanza*, Undergraduate School, CLEF, Bocconi University, Milano
	a.y. 2015-2016;	Professor (under contract), course: *Psicometria,* Psicology, Università Cattolica del Sacro Cuore, Brescia.
	a.y. 2015-2016	Professor (under contract), course: *Statistica*, Undergraduate School, CLEACC, Bocconi University, Milano
	a.y. 2014-2015	Professor (under contract), course: *Metodi Quantitativi per il Management,* Graduate School, Management, Bocconi University, Milano
	a.y. 2011-2014	Professor (under contract), course: *Modelli statistici per l'analisi dei dati e la valutazione d'efficacia*, Undergraduate School, Bocconi University, Milano
	a.y. 2009-2011	Professor (under contract), course: *Matematica e Statistica*, Biotecnologie Mediche e Farmaceutiche, Facoltà di Medicina, Università Vita e Salute S. Raffaele, Milano.
	a.y. 2010-2011	Professor (under contract), course: *Inferenza Statistica, Analisi dei dati, Statistica e Probabilità, Applicazioni informatiche di tecniche statistiche di analisi dei dati, Approfondimento di Analisi dei Dati*, Università degli Studi di Brescia

	a.y. 1999-2007	Professor (under contract), course: *laboratorio di Statistica,* SILSIS Brescia-Bergamo.
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OTHER TEACHING ACTIVITIES	a.y. 2009-2022	Preparation of exams at the University L. Bocconi for the written exams of several courses.
Supervisor of many thesis at the University L. Bocconi.
	a.y. 2009-2015	Preparation of exams at Vita e Salute University, S. Raffaele, for the courses of: Matematica e Statistica (Biotecnologie), Statistica (Medicina e Chirurgia), Statistica (Psicologia).
	a.y. 1999-2007	Preparation of exams at Economia, Università degli Studi di Brescia, for the courses of: Statistica Statistica e Probabilità, Inferenza Statistica, Analisi dei dati, Analisi di Mercato, Modelli e algoritmi per il data mining, Statistica aziendale.
Supervisor of many thesis at Università degli Studi di Brescia.
	a.y. 1998-2007	At Università degli Studi di Brescia, tutor of the following courses: Statistica, Statistica e Probabilità, Inferenza Statistica, Analisi dei dati, Sistemi per il CRM, Sistemi TQC, Analisi di Mercato, Data Mining per le decisioni economico-aziendali, Analisi e previsione delle serie storiche, Analisi revisionale, Modelli e algoritmi per il data mining, Reti neurali per lo studio del mercato, Statistica Aziendale

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MAIN EDUCATIONAL SEMINARS	2008	*"Statisticians and BI"* (Alberici A., Poli E.), Pentaho and Business Intelligence Conference, Mainz (Germany), June14-16 2008.
	2005	"*I Modelli Multilivello e loro applicazione nell'ambito delle Analisi di Mercato*", in the course of Analisi di Mercato at Università degli Studi di Brescia.
	2004	"*Il trattamento dei dati a fini statistici: applicazioni nell'ambito dell'analisi sensoriale*", in the Master course "Scienze della grappa", San Michele all'Adige (TN).
	2002	"*Le principali distribuzioni di probabilità e l'uso di Excel*", ISFOR, 2000.
	2000	"*Stima intervallare e l'analisi sensoriale*", in the training course in sensorial analysis, Regione Lombardia, Milano.
"*Stima puntuale: regole di decisione e stimatore Minimax*" (PhD course in Methodological Statistics, Università degli Studi di Milano Bicocca).
	1999	"*Genesi di una variabile casuale di Poisson*" PhD course in Methodological Statistics, Università degli Studi di Milano Bicocca).
	1998	"*Consultazione di un ipertesto: le variabili casuali discrete e continue*", in the course of Statistica II at Università degli Studi di Brescia.
	1999	"*Verifiche di ipotesi non parametriche*", in the course of Inferenza Statistica at Università degli Studi di Brescia.

MORE INFORMATION: OTHER PROFESSIONAL EXPERIENCE	Since July 2020	Lecturer at Decision Sciences Department, Bocconi University, Milan.
	2010-2012	Collaboration contract at CUSSB, Centro Universitario di Studi Statistici Biomedici, at S. Raffaele Hospital, Milano.
	2007	Holder of a research grant awarded under the INGENIO Global Grant, promoted by the European Social Fund, the Ministry of Labour and Social Policies and the Lombardy Region, entitled "Statistical Evaluation of Service Quality".
	2005-2006	Holder of a research grant entitled "Statistical models for the evaluation of the quality of work", research responsible Prof. Eugenio Brentari.
	2002-2004	Holder of a research grant entitled "Simulation methods for multilevel analysis in the socio-economic field", responsible for the research Prof. Maurizio Carpita.
	2007	Drafting and online preparation of the questionnaire addressed to the quality managers of the Italian Social Cooperatives adhering to the CGM Consortium and enjoying the CISQ-CERT certification, for the survey on the "Evaluation of the Quality System in the Italian Social Enterprise", carried out within the INGENIO Research Project. Coordination and preparation of the survey. Data collection and processing.
		Drawing up and preparation of the questionnaire for users on "Satisfaction of users in Lombardy's crèches", carried out as part of the INGENIO Research Project. Coordination and preparation of the survey. Data collection and processing.
		Drafting and preparation of the questionnaire addressed to employees on "Satisfaction of workers in Lombardy's day nurseries", carried out within the INGENIO Research Project. Coordination and preparation of the survey. Data collection and processing
	2005	Preparation of the questionnaire addressed to paid workers and collaboration in the realization of the questionnaire addressed to social cooperatives for the survey on Social Cooperatives (2005), aimed at assessing the social services sector in its various aspects (workers' conditions, development of voluntary activity, characteristics of users, ...).
	2004	Collaboration in the statistical survey aimed at measuring user satisfaction and service quality of Municipal Nursery Schools (Prof. M. Carpita, Prof. E. Brentari, Prof. P. Zuccolotto), carried out on behalf of the Municipality of Brescia and with the support of the Research Center "Data Methods Systems" of the Department of Quantitative Methods of the University of Brescia.

2002	Completion by assigning values to missing data from the paid workers data set and collaboration in completing the organizations data set from the 1998 FIVOL-FEO social services sector survey.
2002-2005	Coordination and management of data related to the questionnaires of enrolled students at the Faculty of Economics, University of Brescia. Preparation of the questionnaire for the year 2005.

SCIENTIFIC PUBLICATIONS

1. Brombin, C., Diomede, L., Tudor, D., Drillet, A. S., Pastori, C., Poli, E., Riva, A., Uberti-Foppa, C., Galli, M., Di Serio, C., Bomsel, M. and Lopalco, L. (2013). A nonparametric procedure for defining a new humoral immunological profile in a pilot study on HIV infected patients. *PLoS One* **8**:e58768. DOI: 10.1371/journal.pone.0058768.

2. Carpita M., Poli E., (2007), Statistica per l'impresa sociale di qualità, Rivista Economia e Statistica del Territorio, n.3, Franco Angeli.

3. Carpita M., Poli E., (2007), Confronti tra specificazioni alternative dei modelli multilivello: un'applicazione alla valutazione della *job satisfaction*, Metodi, Modelli e Tecnologie dell'Informazione a Supporto delle Decisioni, (parte II: Applicazioni, eds A. Di Maio, M. Gallo, B. Simonetti), Franco Angeli, ISBN 978-88-464-8381-2.

4. Carpita M., Poli E., (2007), Statistica per l'impresa sociale di qualità, pubblicato in Atti del Convegno Valutazione e Customer Satisfaction per la Qualità dei Servizi, Roma.

5. Carpita M., Manisera M., Poli E., (2007), Customer-Linkage research and the Social Enterprise, published in Atti del Convegno Colloquio scientifico annuale sull'Impresa Sociale, IRIS Network, Napoli.

6. Mazzali A., Manisera M., Poli E., (2006) Minimax Estimation based on a L1-metric loss function for Stationary Time Series, *Rapporti di Ricerca del Dipartimento di Metodi Quantitativi, Quaderno n. 276*.

7. Carpita M., Poli E., (2006), Confronti tra specificazioni alternative di modelli multilivello, published in Atti del Convegno, MTIDS 2006, Procida.

8. Poli E., (2005), Modelli multilivello con interazioni per l'analisi delle politiche retributive nel settore dei servizi sociali in Italia, *Rapporti di Ricerca del Dipartimento di Metodi Quantitativi, Quaderno n. 256*.

9. Alberici A., Brentari E., Poli E., (2005), Indicatori di rischio nel trattamento dei dati, *Rapporti di Ricerca del Dipartimento di Metodi Quantitativi, Quaderno n. 250*.

10. Brentari E., Poli E., (2004), Ricerca di soglie critiche per un test su matrici di confusione, **S**tatistica & **A**pplicazioni, vol. II, n. 2.

11. Poli E., Mazzali A., (2004), Misure di posizione nelle distribuzioni di ranghi, *Rapporti di Ricerca del Dipartimento di Metodi Quantitativi, Quaderno n. 244.*

12. Poli E., (2004), La struttura retributiva nel settore dei servizi sociali: un'applicazione con i dati dell'indagine FIVOL-FEO, *Rapporti di Ricerca del Dipartimento di Metodi Quantitativi, Quaderno n. 245.*

13. Brentari E., Poli E., (2004), Ricerca di soglie critiche per un test su matrici di confusione, *Rapporti di Ricerca del Dipartimento di Metodi Quantitativi, Quaderno n. 242.*

14. Dancelli L., Brentari E., Carpita M. e Poli E. (2001), On multilevel models for ordered categorical responses, *Rapporti di Ricerca del Dipartimento di Metodi Quantitativi, Quaderno n. 204.*

TEACHING PUBBLICATIONS

1. Melilli E., Poli E., Venturini S., *Analisi dei dati con R*, lectures of the course of Analisi dei dati

2. Baronchelli S., Manisera M., Poli E., *Tutorial Remark Office*, internal Report.

3. Brentari E., Poli E. (2006), *Introduzione all'Inferenza Statistica*, ed. Synthesis, Brescia.

4. Brentari E., Poli E. (2004), *Elementi di Statistica e Probabilità*, ed. CLUB, Brescia.

5. Brentari E., Poli E. (2003), *Introduzione all'Inferenza Statistica*, ed. CLUB, Brescia.

6. Brentari E., Poli E. (2002), *La stima puntuale ed intervallare, Appunti per il corso di Inferenza Statistica*, ed. CLUB, Brescia.

7. Brentari E., Poli E. (2002), *Le verifiche di ipotesi, Appunti per il corso di Inferenza Statistica*, ed. CLUB, Brescia.

8. Brentari E., Carpita M. e Poli E., (1999), *Le variabili casuali*, ed. CLUB, Brescia.

- *"Searching for biomarkers in Alzheimer's disease and improving early diagnosis"* (Brombin C., Di Serio, Poli E., Magnani G. e Santangelo R.), VIII International Congress SIB, Gargnano, June 27-28, 2011.

- *"Un'analisi su dati longitudinali per la valutazione dell'efficacia dei trattamenti"* (Poli E.), final meeting PRIN 2007-2009, Università Vita e Salute S. Raffaele, Milano, January, 27 2011.

- *"Customer-Linkage research and the Social Enterprise"* (Carpita M., Manisera M., Poli E.), Scientific Colloquium on Social Interprise, IRIS Network, Napoli, May 10-11, 2007.

- *"Statistica per l'Impresa Sociale di qualità"* (Carpita M., Poli E.), Convegno Valutazione e Customer Satisfaction per la Qualità dei Servizi, Università "Tor Vergata", Roma April 12-13, 2007.

- *"Confronti tra specificazioni alternative di modelli multilivello"*, Convegno MTISD Metodi, Modelli e Tecnologie dell'Informazione a Supporto delle Decisioni, Procida, September 5-7, 2006.

- *"Tutorial OMR: come gestire i dati provenienti da questionari cartacei"*, intervento al Convegno Intermedio del PRIN 2004, Napoli, January 29-30, 2006.

- *"L'analisi della struttura retributiva nel settore dei servizi sociali"*, Convegno "Teorie e Modelli per le analisi delle relazioni di lavoro nelle organizzazioni del settore dei servizi sociali", Brescia, May 7, 2004.

- *"Valutazione della qualità con modelli multilivello"* (Carpita M., Poli E.) intervento al Convegno Finale COFIN 2001 Modelli statistici, microdati e fonti amministrative: problemi metodologici ed applicazioni in ambito sanitario ed economico-sociale a fini decisionali, Udine, January 30-31 2003.

- *"Modelli multilivello non lineari: il problema della stima"*, Dipartimento di metodi quantitativi, Università degli studi di Brescia, January 2002.

- *"Non linear multilevel models: a comparison between Gauss Hermite integration and PQL results"*, tenuto presso il Department of Social Statistics, Institute of Social Sciences, University of Southampton, Southampton (UK), August 2001.

- *"L'insegnamento della statistica con tecniche multimediali"*, Convegno La matematica nelle Facoltà di Economia: prospettive e innovazioni, Brescia, May 27- 28 , 1999.

Elena Poli