

ROBERTA VARRIALE

Curriculum Vitae

Updated on 05/02/2026

General Information

Full Name	Roberta Varriale
Citizenship	Italian
Spoken Languages	Italian, English

Education

Type	Master, II level (ISCED 97: 5)
Year	2018 (Thesis 2019)
Institution	Faculty of Information Engineering, Informatics and Statistics University "La Sapienza" of Rome
Notes	<i>Big Data. Metodi statistici per la società della conoscenza</i> Project work: <i>Modelli Hidden Markov per la stima dello stato occupazionale in Italia</i> Certification <i>SAS Certified Predictive Modeler Using SAS Enterprise Miner 14</i>

Type	PhD (ISCED 97: 6)
Year	2005/2007 (Thesis 2008)
Institution	Department of Statistics "G.Parenti", University of Florence
Notes	Ph.D in <i>Applied Statistics</i> Thesis: <i>Multilevel Mixture Models for the analysis of the University Effectiveness</i> The research activity focused mainly on three topics, from a theoretical and applied point of view: latent variable models (multilevel factor models and multilevel mixture factor models); multilevel regression models; forward search. From an applied point of view, socio-economic phenomena were analyzed, such as the evaluation of the internal and external effectiveness of the university system, also from a longitudinal perspective. Visiting PhD Student (4 months), Department of Methodology and Statistics, Tilburg University (NL)

Type	University graduation (ISCED 97: 5A)
Year	2004
Institution	Faculty of Economics, University of Florence
Notes	B.S. in Business and Management (4 years), level 7 QEQ Thesis: <i>Time needed to graduate in the University of Florence: application of a hierarchical linear model upon graduates during the calendar year 2000</i> Thesis subject: statistics. Mark: 110/110 cum laude. The research dealt with the study of linear and nonlinear multilevel regression models to evaluate the effectiveness of the Italian university system, with particular attention to the study of its critical issues, such as career duration and university drop-out. Exchange student (6 months), Socrates/Erasmus Project at Univ. of Reading (UK)

Appointments

Start - End	24/10/2022 – PRESENT
Institution	Department of Statistical Sciences, Sapienza University of Rome Piazzale Aldo Moro 5, Rome
Position	RTDb (Fixed-term Researcher, Type B)
Description	<p>The activities included:</p> <ul style="list-style-type: none"> - coordinator of the Official Statistics curriculum (EMOS, European Master in Official Statistics) within the Master's Degree Programme in Statistical Methods and Applications - research activities, with active participation in working groups and national and international projects; - training: teaching and seminars; - participation in national and international conferences. <p>The research activities mainly focused on the development and analysis of advanced statistical models for the production of statistical information in multi-source contexts, with particular attention to the study of measurement error in longitudinal data.</p>
Start - End	09/2011 – 23/10/2022, 24/10/2022 – PRESENT <i>fuori ruolo</i>
Institution	Italian National Institute of Statistics, ISTAT Via Cesare Balbo 16, 00184 Roma
Position	Researcher, methodological statistician First-Level Researcher, Methodological statistical area (fuori ruolo), Resolution no. DOP/160/2023 of 07/02/2023 Permanent researcher, Methodological statistical area, 4th place in the ranking, Resolution no. 211 / PER of 21/03/2017 Fixed-term researcher, Methodological statistical area, 1st place in the ranking, Resolution no. 474 / PER of 26/05/2011
Description	<p>The activities included:</p> <ul style="list-style-type: none"> - statistical/methodological activities; - project leadership; - training and research activities, with active participation in working groups and national and international projects; - participation at national and international conferences; - referee for international journals; - participation in international cooperation projects as Istat Expert.
Start - End	01/03/2009 – 31/08/2011
Institution	Department of Statistics "G.Parenti", University of Florence Viale Morgagni 59, Firenze
Position	Research fellow on <i>Orienteering and formative processes in education</i>
Description	<p>The activities included:</p> <ul style="list-style-type: none"> - research activities, with active participation in working groups and national and international projects; - training: teaching and seminars; - participation in national and international conferences. <p>The research activity concerned mainly the development and the use of statistical methodologies for the evaluation of the self-assessment test administered to university students.</p>

Start - End	15/04/2008 – 31/07/2010
Institution	Department of Methodology and Statistics, Tilburg University Warandelaan 2, 5037 AB Tilburg (NL)
Position	Researcher
Description	The activities included: - research activities, with active participation in working groups and national and international projects; - training: teaching and seminars; - participation in national and international conferences. The research mainly focused on the study of latent variables models, in particular multilevel factor mixture models and latent class multilevel models, with application in social science. The research activity was aimed at publishing articles on international journals.

Start - End	2003 – 2008
Institution	University/Public I
Position	Collaborator for research activities , various projects
Description	Research activity on the following topics: - Students' career and living conditions - Project FINVALI 2005 - Dynamics of the agro-food system and the rural world of Maremma - Teaching evaluation (First Level Degree Programs) - Methodologies and analysis of the socio-economic characteristics of rural districts - CampusOne (teaching evaluation action).

Teaching and organizational experience

Teaching experience and tutoring, university

2024/2025
Sapienza University of Rome
PhD Course Farmacologia e Tossicologia (12 hours): <i>Principles of statistics for the analysis of biomedical data (in English)</i>
Course (8 hours): <i>Big Data e qualità del dato: trattamento degli errori (Errors in data)</i>
Master - II level Big data. Metodi statistici per la società della conoscenza
European University of Rome
Course (11,5 hours): <i>Statistica per l'HR Management</i>
Master – I level <i>Sustainable Human Resource Management</i>
2023/2024
Sapienza University of Rome
Course (60 hours 10 CFU): Statistica
Degree course: Ingegneria gestionale
Course (27 hours 3 CFU): Laboratorio Software Statistici
Degree courses: Statistica economia e Società, Statistica Economia Finanza e Assicurazioni
PhD Course in Farmacologia e Tossicologia (12 hours): Principles of statistics for the analysis of biomedical data (in English)

Course (14 hours): Introduzione alla statistica, con R Course (8 hours): <i>Big Data e qualità del dato: trattamento degli errori (Errors in data)</i> Master - II level Big data. Metodi statistici per la società della conoscenza
University of Calabria Course (2 hours): <i>Errors in data</i> (in English) Master - II level <i>Data science</i>
European University of Rome Course (14 hours): Statistica per l'HR Management Master - I level Sustainable human resource management (SHRM)
2022/2023
Sapienza University of Rome Course (60 hours 10 CFU): Statistica Degree course: Ingegneria gestionale Course (27 hours 3 CFU): Laboratorio Software Statistici Degree course: Statistica Gestionale PhD Course Farmacologia e Tossicologia (12 hours): Principles of statistics for the analysis of biomedical data (in English)
University of Calabria Course (2 hours): <i>Errors in data</i> (in English) Master - II level <i>Data science</i>
European University of Rome Course (8 hours, 1 CFU): <i>Statistics for business</i> (in English) Degree course: Economics and Business Management Course (3,5 hours): <i>Statistica per l'HR Management</i> , modulo Associazione e regressione Master - I level Sustainable human resource management (SHRM)
2021/2022
University of Calabria Course (4 hours): <i>Errors in data</i> (in English) Master - II level <i>Data science</i>
European University of Rome Course (48 hours, 6 CFU): <i>Statistics for business</i> (in English) Degree course: Economics and Business Management Tutor for the thesis <i>Forecasting during COVID-19: An e-commerce case study</i>
2020/2021
University of Calabria Course (8 hours): <i>Errors in data</i> (in English) Master - II level <i>Data science</i>
European University of Rome Course (48 hours, 6 CFU): <i>Statistics for business</i> (in English) Degree course: Economics and Business Management Tutor for the thesis <i>Commercio all'ingrosso alimentare: indagine sulle potenzialità di un'innovazione</i>

University of Pisa
Module (7 hours): <i>Use of Administrative Data in Official Statistics</i> , course Survey methods: traditional and new techniques in official statistics (European Master on Official Statistics, EMOS)
University of Bergamo
Tutor for the internship (EMOS) Project: Tecniche di Machine Learning in contesto multifonte
2019/2020, 2018/2019, 2017/2018
University of Pisa
Module (7 hours): <i>Use of Administrative Data in Official Statistics</i> , course Survey methods: traditional and new techniques in official statistics (EMOS)
University of Florence
Module (2 hours): <i>Use of Administrative Data in Official Statistics</i> (EMOS)
2016/2017
University of Florence
Module (2 hours): <i>Use of Administrative Data in Official Statistics</i> (EMOS)
2015/2016
University of Florence
Module (2 hours): <i>Problemi di editing and imputation</i> (EMOS)
2011/2012
University of Florence
Tutor for the thesis <i>Classe di laurea e condizione occupazionale dei laureati specialistici: un'analisi statistica multilivello</i> , master degree "Scienze dell'Economia"
European University of Rome
Teaching support for the courses: - <i>Statistica</i> (10 CFU), Prof. C.Crocetta - <i>Statistica economica per la gestione delle imprese</i> (10 CFU), Prof.ssa M.Bini - <i>Statistica economica (corso progredito)</i> (10 CFU), Prof.ssa M.Bini
University of Florence, Department of Statistics "G.Parenti"
Teaching support and tutoring for the SIS course <i>Teoria e Pratica dei Modelli ad Effetti Casuali per Dati Multilivello e Longitudinali</i>
2010/2011
University of Florence
Teaching support for the courses: - <i>Statistica I</i> , Prof. A.Giommi - <i>Inferenza Statistica</i> (12 CFU), Prof. B.Chiandotto - <i>Statistica</i> (12 CFU), Prof. L.Grilli
2009/2010
University of Florence
Teaching support for the courses: - <i>Inferenza Statistica</i> (12 CFU), Prof. B.Chiandotto and Dr. B.Bertaccini

- *Statistica* (12 CFU), Prof. L.Grilli

University of Florence, Department of Statistics “G.Parenti”

Teaching support and tutoring for the SIS course *Teoria e Pratica dei Modelli ad Effetti Casuali per Dati Multilivello e Longitudinali*

2008/2009

University of Padova

Tutor for the thesis *Consumatore europeo e canali di acquisto: segmentazione del mercato mediante un approccio a classi latenti*, master degree “Scienze Statistiche Economiche Finanziarie e Aziendali”

Tilburg University (NL)

Teaching Assistants at Department of Methodology and Statistics, Faculty of Social and Behavioural Sciences

2007/2008

University of Florence, Department of Statistics “G.Parenti”

Teaching support and tutoring for the SIS course *Teoria e Pratica dei Modelli ad Effetti Casuali per Dati Multilivello e Longitudinali*

2006/2007

University of Florence

Teaching support for the courses:
- *Analisi di mercato*, Prof. A.Viviani
- *Statistica Economica (Aziendale)*, Prof.ssa M.Bini

Teaching experience and tutoring, Istat

2022

Software BANFF (on-line)

Some scenarios of using administrative data. Statistical methods to integrate data and to use administrative data in the statistical production process cooperation project with Vietnam

2021

Software BANFF (on-line)

2020

Software BANFF (on-line)

2019

Modelli e strumenti per il controllo e la correzione dei dati

2018

Tutor of the PhD student Laura Boeschoten (CBS-Tilburg University), Project Agreement Istat-CBS *Hidden Markov models to estimate employment rates*

2017

Selective editing at Istat, cooperation project with Montenegro

Seminars

2024/2025
Centre d'Estudis Demogràfics, Barcelona
<i>Mixture of Hidden Markov Models for labour statistics, the Italian case</i>
DiSIA, Università degli studi di Firenze
<i>Mixture of hidden Markov models for labour statistics, the Italian case</i>
Utrecht University
<i>Total Process Error: An Approach for Assessing and Monitoring the Quality of Multisource Processes</i>
Tilburg University
<i>Mixture of Hidden Markov Models for labour statistics, the Italian case</i>
2023/2024
Indian Statistical Institute, Economics and Planning Unit, New Dheli, India
<i>Multi-source labour statistics. Mixture of Hidden Markov Models and Machine learning tools.</i>
Statistics Netherlands, Den Haag
<i>Total Process Error: An Approach for Assessing and Monitoring the Quality of Multisource Processes</i>
2021/2022
Istat
Organization of the event <i>Registro Esteso delle Unità della Pubblica Amministrazione (REPA), stato di avanzamento dei lavori e prospettive</i>
Presentation: <i>Gruppo di Lavoro REPA: obiettivi e stato di avanzamento dei lavori</i>
2021/2022
Istat
Organization of the event <i>Registro Esteso delle Unità della Pubblica Amministrazione (REPA), stato di avanzamento dei lavori e prospettive</i>
Presentation: <i>Gruppo di Lavoro REPA: obiettivi e stato di avanzamento dei lavori</i>
University "La Sapienza" of Rome
Organization and active participation, on-line seminar of prof. Agresti: <i>Simple Ways to Interpret Effects in Modeling Binary and Ordinal Data Machine learning methods for estimating the employment status in Italy</i>
2020/2021
Escuela de Estadística National University of Rosario, Argentina
Active participation, on-line seminar of prof. Agresti: <i>Simple Ways to Interpret Effects in Modeling Binary and Ordinal Data</i>
Center For Biostatistics, The Ohio State University
Active participation, on-line seminar of prof. Agresti: <i>Simple Ways to Interpret Effects in Modeling Binary and Ordinal Data</i>

2019/2020
Istat
Organization of the event <i>Registro Esteso delle Unità della Pubblica Amministrazione (Frame PA), stato di avanzamento dei lavori e prospettive</i> Presentation: <i>Registro Esteso delle Statistiche della Pubblica Amministrazione (Frame PA), Stato di avanzamento dei lavori</i> , with S. Mantegazza
University of Florence
<i>Machine learning methods for estimating the employment status in Italy</i>
University "La Sapienza" of Rome
<i>Machine learning methods for estimating the employment status in Italy</i>
Istat
Advisory Board Istat <i>Machine learning methods for estimating the employment status in Italy</i> , supervisor M.Alfò
2018
Istat
Workshop of the Advisory Committee on Statistical Methods <i>Integration of administrative sources and survey data through Hidden Markov Models for the production of labour statistics</i> , with D.Filipponi (presenter) and U.Guarnera <i>A new framework for quality assessment of processes based on survey, administrative and register combined data</i> , con F.Rocci e O.Luzi
Istat
Advisory Board Istat <i>A new framework for quality assessment of processes based on integrated administrative data (advancements)</i> , with con F.Rocci and O.Luzi <i>A new framework for quality assessment of processes based on survey, administrative and register combined data</i> , with F.Rocci and O.Luzi
Istat
Organization of the seminar <i>Combine Latent Class Analysis and Multiple Imputation</i> Presentation: <i>The use of Latent Markov Models in the employment register</i> , with D.Filipponi
2017
Eurostat conference, Minsk (Bielorussia)
Invited seminar as Istat expert for the “High-Level Seminar for Eastern Europe, Caucasus and Central Asia (EECCA)”: <i>Quality of Admin Data Sources, Experience of Istat</i>
2013
Istat
Methodological Research Days in ISTAT <i>Modelli a variabili latenti per il Predictive Mean Matching</i> , with U.Guarnera
2009/2010
Tilburg University (NL)
<i>Robust ANalysis Of Variance and Robust Random Effect Model: an approach based on the Forward Search</i>

2008/2009
University “Commerciale Luigi Bocconi”
<i>Robust Random Effect Models: a diagnostic approach based on the forward search</i>
University of Padova
<i>Multilevel Latent Class model: Determining the number of mixture components</i>
University of Neaples “Federico II”
<i>Multilevel Mixture Factor Models</i>
2006/2007
Tilburg University (NL)
<i>Multilevel mixture factor model, the analysis of students’ satisfaction</i>

Research and organizational activities

Participation and coordination of national and international research projects, committees and working groups

Year	Project
2024-PRESENT	Member of the research group - Grande Progetto di Ateneo - funded by Sapienza University of Rome: <i>Latent Variable Models for Complex Health Data</i>
2023-PRESENT	Principal Investigator of the SEED research project <i>Hidden Markov Models in Multi-Source Context</i> , funded by Sapienza University of Rome. Project duration: 2 years (extended until June 2026); funding: €10,000
2023-2024	Member of the research group - Medio Progetto di Ateneo - funded by Sapienza University of Rome: <i>Methodological and Computational Advances for the Analysis of Health Care Costs: An Investigation for the Italian Cancer Experience</i>
2023	Member of the research group - Grande Progetto di Ateneo - funded by Sapienza University of Rome: <i>New Statistical Learning Methods for Model-Based Unsupervised Classification of Complex and High-Dimensional Data</i>
2022-PRESENT	Head of the Italian research team within the Project Agreement <i>A Life Course Dynamics Approach for Non-Standard Employment</i> , established between the Italian National Institute of Statistics (Istat), Statistics Netherlands (CBS), and the Vrije Universiteit Amsterdam
2011	Member of the local organizing committee of the conference - IES 2011 – <i>Innovazione e Società</i> Member of the organizing committee of the Scuola di specializzazione SIS <i>Teoria e Pratica dei Modelli ad Effetti Casuali per Dati Multilivello e Longitudinali</i>
2010	Head of the Local Research Unit for FIRB 2010 (unfunded project): <i>Analisi statistico-strutturale dei dati di monitoraggio e definizione di un modello di previsione per la conservazione e il consolidamento del patrimonio culturale. Il caso della Cupola del Brunelleschi, a Firenze</i>

2007-2009	Project PRIN (Progetto di Ricerca di Interesse Nazionale: <i>Metodi e modelli statistici per la valutazione dei processi formativi</i> , national responsible Prof.ssa P.Monari (University of Bologna)
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Organization of conference sessions

2025	ESRA, session <i>Multi-source Data for Labour Statistics</i>
2006	SIS, session <i>Data Visualization for Smart Insights and Advanced Predictive Analytics</i>

Institutional roles

2024-PRESENT	Member of the Internship Committee of the Department of Statistical Sciences, Sapienza University of Rome.
2022-PRESENT	Coordinator of the Official Statistics curriculum (EMOS, European Master in Official Statistics) within the Master's Degree Programme in Statistical Methods and Applications, Department of Statistical Sciences, Sapienza University of Rome.

Society memberships, Awards and Honors

Year	Title
From 2023	Ordinary Member of the Società Italiana di Economia Demografia e Statistica (SIEDS)
From 2023	Ordinary Member of the Italian Statistical Society (SIS)
2019	Scholarship for Master Executive "Big Data. Metodi statistici per la società della conoscenza" (INPS) Best project work Master Executive "Big Data. Metodi statistici per la società della conoscenza" (INPS)
2005-2012	Ordinary Member of the Italian Statistical Society (SIS)
2004	Award "Giuseppe Parenti" for the best graduate in 2004, Associazione Villa Favard, Faculty of Economics, University of Florence
2003	Scholarship for Socrates/Erasmus Project at University of Reading (UK)

Part IX – Publications (complete)

Thesis and Project work (TH)

#02 Varriale R.

Modelli Hidden Markov per la stima dello stato occupazionale in Italia
2019, Project work, Università di Roma “La Sapienza”

#01 Varriale R.

Multilevel Mixture Models for the analysis of the University Effectiveness
2008, Tesi di dottorato, Università degli Studi di Firenze

Papers in Journal (PJ)

#28 Pavlopoulos D., Varriale R., Loriga S.

Does measurement error bias employment pathways? The case of Italy
2025, *Rivista italiana di economia, demografia e statistica*, LXXIX-1, 211-222
ISSN: 0035-6832
(ANVUR list)

#27 Varriale R., Passante D., Vitiello C..

Revenues and expenditures in Italian municipalities: a multilevel latent class approach
2025, *Rivista italiana di economia, demografia e statistica*, LXXIX-2, 19-30
ISSN: 0035-6832
(ANVUR list)

#26 Varriale R., Garnier-Villarreal M., Pavlopoulos D., Filipponi D.

A multiple-group hidden Markov model for multi-source data. Cross-country differences in employment mobility in the presence of measurement error
2025, *Big data research*, 41, 1-12
ISSN: 2214-5796, doi: 10.1016/j.bdr.2025.100527
(ANVUR list, Classe A)

#25 Filipponi D., Guarnera U., Varriale R.

Multi-source inference via mixture of hidden Markov models: application to regional labour statistics in Italy
2025, *Journal of the royal statistical society. series a. statistics in society*. 188, 98-118
ISSN: 0964-1998
(ANVUR list, Classe A)

#24 Varriale R., Filipponi D., Garnier-Villarreal M., Pavlopoulos D.

How "real" is mobility from temporary to permanent employment in Italy? A focus on measurement error,
2024, *Statistica applicata*, 1-28
ISSN: 2038-5587, doi: 10.26398/IJAS.272
(ANVUR list)

#23 Varriale R., Nevio A., Casagrande C., Olivieri V.

The statistical register for public administrations: the reference framework and some methodological aspects
2024, *Rivista italiana di economia, demografia e statistica*, LXXVIII-1 January-March 2024, 173-184
ISSN: 0035-6832
(ANVUR list)

#22 Casciano M. C., Varriale R.

The Italian quick survey on the effects of the COVID-19 health emergency on businesses: sampling strategy and data editing

2023, *Applied stochastic models in business and industry*, 1-12

ISSN: 1524-1904, doi: 10.1002/asmb.2761

(ANVUR list, Classe A)

#21 Varriale R., Alfo' M. (2023).

Multi-source statistics on employment status in Italy, a machine learning approach

2023, *METRON*. 81, 37-63

ISSN: 0026-1424, doi: 10.1007/s40300-023-00242-7

(ANVUR list)

#20 Guandalini A., Passante D., Varriale R.

The revenues of local governments in the statistical register for public administrations: inequality decomposition by sources.

2022, *Rivista italiana di economia, demografia e statistica*. 17-28

ISSN: 0035-6832

(ANVUR list)

#19 Regano A., Tomeo V., Varriale R.

Analysis of accounting data from the explanatory notes to the financial statements for the estimation of the enterprises investments

2022, *Rivista italiana di economia, demografia e statistica*. 3, 85–96

ISSN: 0035-683

(ANVUR list)

#18 Rocci F., Varriale R., Luzi O.

Total process error: An approach for assessing and monitoring the quality of multisource processes

2022, *Journal of Official Statistics*. 38, 533–556

ISSN: 0282-423X

(ANVUR list, Classe A)

#17 Boeschoten L., Filippini D., Varriale R.

Combining Multiple Imputation and Hidden Markov Modeling to Obtain Consistent Estimates of Employment Status

2021, *Journal of Survey Statistics and Methodology*. 9 (3), 549–573

ISSN: 2325-0984, doi: 10.1093/jssam/smz052

(ANVUR list, Classe A)

#16 Luzi O., Rocci F., Sanzo R., Varriale R.

A quality evaluation framework for the statistical register Frame-SBS

2017, *Rivista di statistica ufficiale*, n.1-2-3/2017

ISSN: 1972-4829, 1828-1982

(ANVUR list)

#15 Guarnera U., Varriale R.

Estimation from Contaminated Multi-Source Data Based on Latent Class Models

2016, *Statistical Journal of the IAOS. Journal of the International Association for Official Statistics*. 32, 537-544

ISSN 1874-7655 (P), ISSN 1875-9254 (E)

- #14 Di Zio M., Guarnera U., Varriale R.
The estimation of the main variables of the economic account of small and medium enterprises based on administrative sources
2016, *Rivista di Statistica Ufficiale*. 1/2016, 71-81
ISSN: 1972-4829, 1828-1982
(ANVUR list)
- #13 Dal Bianco C., Paccagnella O., Varriale R.
A multilevel latent class analysis of the purchasing channels among European consumers
2016, *METRON*. 74(3), 293-309
DOI: 10.1007/s40300-016-0100-0
ISSN 0026-1424, 2281-695X
(ANVUR list)
- #12 Grilli L., Rampichini C., Varriale R.
Statistical modelling of gained university credits to evaluate the role of pre-enrolment assessment tests: an approach based on quantile regression for counts
2016, *Statistical Modelling*. 16, 47-66
ISSN: 1471-082X
DOI: 10.1177/1471082X15596087
(ANVUR list, Classe A, 13/D1 D2 D3)
- #11 Grilli L., Rampichini C., Varriale R.
Binomial mixture modelling of university credits
2015, *Communications in Statistics - Theory and Methods*. 44(22), 4866-4879
ISSN 1532-415X
DOI:10.1080/03610926.2013.804565
(ANVUR list)
- #10 Grilli L., Varriale R.
Specifying Measurement Error Correlations in Latent Growth Curve Models With Multiple Indicators
2014, *Methodology*. 10(4), 117-125
ISSN 1614-1881
DOI: 10.1027/1614-2241/a000082
(ANVUR list, Classe A, 13/D1 D2 D3 D4 until 31/12/2017)
- #09 Dal Bianco C., Paccagnella O., Varriale R.
Purchasing in European Union: a multilevel latent class application
2012, *Quaderni di Statistica*. 14, 81-84
ISSN 1594-3739, ISBN 13 978-88-207-5852-3
(ANVUR list)
- #08 Grilli L., Rampichini C., Varriale R.
University admission test and students' careers: evidence from the School of Economics in Florence
2012, *Quaderni di Statistica*. 14, 133-136
ISSN 1594-3739, ISBN 13 978-88-207-5852-3
(ANVUR list)
- #07 Varriale R., Vermunt J.K.
Multilevel Mixture Factor Models
2012, *Multivariate Behavioral Research*. 47, 247-275
ISSN: 0027-3171
WOS 000305297200004
DOI 10.1080/00273171.2012.658337
(ANVUR list, Classe A, 13/D1 D2 D3 D4)

#06 Galassi F., Giambene B., Varriale R.
Systemic Vascular Dysregulation and RetrobulbarHaemodynamics in Normal Tension Glaucoma
2011, *Investigative Ophthalmology & Visual Science*. 52(7), 4467-71
ISSN: 0146-0404
(ANVUR list)

#05 Lukočienė O., Varriale R., Vermunt J.K.
The simultaneous decision about the number of lower- and higher-level classes in multilevel latent class analysis
2010, *Sociological Methodology*. 40, 247-283
ISSN: 0081-1750
(ANVUR list)

#04 Arpino B., Varriale R.
Assessing the quality of institutions' rankings obtained through multilevel linear regression models
2010, *Journal of Applied Economic Sciences*. Volume 5, Issue 1(11), 7-22
ISSN 1843-6110
(ANVUR list)

#03 Varriale R.
The external effectiveness of the University Education: a Multilevel Mixture Factor Model
2008, *Statistica Applicata, Italian Journal of Applied Statistics*. 20 (2), 135-147
ISSN 1125-1964
(ANVUR list)

#02 Bertaccini B., Varriale R.
Robust ANalysis Of VAriance: An approach based on the Forward Search
2007, *Computational Statistics & Data Analysis*. 51, 5172-5183
ISSN 0167-9473
(ANVUR list, Classe A, 13/D1 D2 D3)

#01 Varriale R.
Tempi di conseguimento del titolo nell'Università degli Studi di Firenze: applicazione di un modello lineare gerarchico ai laureati nell'anno solare 2000
2004, *E-gov*, anno III, 11 Novembre 80-82

Papers in volume (PV)

#12 Agresti A., Tarantola C., Varriale R.
Simple Ways to Interpret Effects in Modeling Binary Data
2023, In: Kateri M., Moustaki I. (eds.) *Trends and Challenges in Categorical Data Analysis: Statistical Modelling and Interpretation*, 155-176, Springer, Cham

#11 Agresti A., Tarantola C., Varriale R.
Interpreting Effects in Generalized Linear Modeling
2021, In: Balzano S., Porzio G.C., Salvatore R., Vistocco D., Vichi M. (eds) *Statistical Learning and Modeling in Data Analysis, Methods and Applications*. Studies in Classification, Data Analysis, and Knowledge Organization (Post-proceedings CLADAG 2019). Springer, Cham.
ISBN: 978-3-030-69943-7, ISSN: 1431-8814, doi: 10.1007/978-3-030-69944-4_1

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