CURRICULUM VITAE
Alessio FARCOMENI

Current position

Since September 2019: Full Professor in Statistics, University of Rome "Tor Vergata", Deparment of Economics and Finance

Since April 2020: CEIS - Centre for Economic and International Studies, Research Fellow

Since December 2020: Rome Economics Doctorate – Resident Faculty

Since June 2021: Ph. D. in Data Science – Faculty

Since December 2022: Rome Center on Mathematics for Modeling and Data ScienceS - member

Past positions

2015-2019 Associate Professor in Statistics in Medicine, Sapienza – University of Rome, Deparment of Public Health and Infectious Diseases
2007-2015 Assistant Professor in Statistics in Medicine, Sapienza – University of Rome, Deparment of Public Health and Infectious Diseases
2005-2006 Temporary assistant professor in Statistics, Sapienza – University of Rome, Deparment of Statistics
2004-2005 Post-doc, CASPUR, Consorzio interuniversitario per le Applicazioni di Supercalcolo per Universita' e Ricerca, for statistical applications in genetics, in particular microarray data.

Instruction:

1996	High school in scientific studies, mark: 60/60, Liceo "Augusto Righi", Roma
2001	Bachelor degree cum laude in Statistics, Sapienza – University of Rome
2002	Master of Science in Statistics, Carnegie Mellon University (CMU), Pittsburgh, USA
2005	Ph.D. In Statistical Methodology, Sapienza – university of Rome

Summary of Scientific Achievements

Listed as one of the top Italian scientists by Via-academy (full list at http://www.topitalianscientists.org); and by Ioannidis et al. among the top 100,000 science wide

Total Citations (Google Scholar): 12399
Hirsh index (Google Scholar): 58

Research Activity:

Research activity has been devoted to statistical methodology and to statistical consulting for econometric, biomedical and environmental applications. Alessio Farcomeni is author or co-

author of about 350 papers in international peer-reviewed journals, often accompanyed by software packages (mostly for the *R* software).

The range of topics covered by the intense research activity is varied. Statistical methodology works discuss multiple testing, survival analysis, latent Markov models, cluster analysis, capture-recapture, robust statistics.
These methodological papers have been published among others in *Journal of the American Statistical Association, Biometrika, Annals of Applied Statistics, Scandinavian Journal of Statistics, Biometrics, Statistical Methods in Medical Research*, *Journal of Statistical Software*.

Applied works have been published mostly after collaboration and consulting with distinguished scholars in the fields of medicine, genetics, biology, ecology, economic statistics, engineering. Among others, such works have been published in *Science Advances, Gastroenterology, Journal of Econometrics, American Journal of Gastroenterology, Journal of The American College of Cardiology, Cell Reports, Scientific Reports, Chest, Environmental Microbiology, Biodiversity and conservation*, *Journal for Nature Conservation.*

Alessio Farcomeni is author of two books edited by Chapman & Hall, one regarding Latent Markov Models and another regarding Robust Multivariate Statistics.

A full list of publications is available at the end of this CV.

Professional Qualifications

On 10/01/2014, formally approved as qualified as full professor in Statistics by the appropriate commission of the Italian government. Confirmed on 17/07/2018.
On 02/08/2017, formally approved as qualified as full professor in Medical Statistics by the appropriate commission of the Italian government

On 10/12/2013, formally approved as qualified as associate professor in Econometrics by the appropriate commission of the Italian government
On 21/01/2014, formally approved as qualified as associate professor in Statistics in Medicine by the appropriate commission of the Italian government
On 10/01/2014, formally approved as qualified as associate professor in Statistics by the appropriate commission of the Italian government

Editorial Activities

2019-2023: Co-Editor (Methods Section) for *Statistical Methods & Applications*
2017-2020: Associate editor for *Biometrical Journal*
Since 2016: Associate editor for *Statistics & Probability Letters*
Since 2015: Associate editor for *De Gruyter International Journal of Biostatistics*
2014-2019: Associate editor for *Statistical Methods & Applications*

Current Committees

VQR (Evaluation of Research Quality) representative for the Department of Economics and Finance, Tor Vergata University

since 2020: Research referent for the Department of Economics and Finance, Tor Vergata University

since 2020: Scientific committee of the Ph.D. Program "Economics" - University of Rome "Tor Vergata"

Scientific Program Committee SIB 2021 conference

Scientific Program Committee CLADAG2021 conference

since 2014: IBS-Italian Region Committee for monitoring group on scientific education
since 2009: Member of ERCIM working group on computational and methodological statistics, specialized team on mixture models
since 2015: Member of SISBayes, group for Bayesian analysis within the SIS (Italian statistical society)

Program commitee for the conference on Soft Methods in Probability and Statistics (SMPS'2022), to be held in Valladolid (Spain), September 16th to 18th, 2022

Past Committees

Scientific commitee for the conference Data Science & Social Research 2020, 10-11 December, 2020

2018-2019: Scientific committee of the Ph.D. Program "Data Science" - Sapienza – University of Rome

2018-2019: director of the master programme in "clinical trial monitoring", see page:
https://www.uniroma1.it/it/offerta-formativa/master/2019/monitoraggio-assicurazione-e-controllo-della-qualita-nei-clinical

2018-2019: Steering committee of the Specialization Programme in "Health Statistics and biometry"

2015-2019: Committee for the promotion of research in the department of public health and infectious diseases of Sapienza – University of Rome

2011-2019: Scientific committee of the Schools of Specialization in Health Statistics and Biometry, Nephrology, and Nuclear Medicine of Sapienza – University of Rome

Scientific committee of the 2019 SIMEC conference

2016-2019: Member of the Ethics Committee of the Ospedale Pediatrico Bambino Gesù

2017: Scientific committee of the Ph.D. Program "Scuola di Scienze Statistiche" - Sapienza – University of Rome

COMPSTAT 2016: session organizer

Program committee of the 2016 SIS (Italian statistical society) conference

2012-2016: Scientific committee of the Ph.D. Program "Metodi Statistici per l'Economia e l'Impresa" - Università di Roma tre

Scientific Committee for the 2015 meeting of the joint Italian and Austro-Swiss regions of the IBS. Chair and organizer of the plenary invited session "Robust Methods in Biostatistics"

Local Organizing Committee for the International Biometric Conference 2014

Scientific Committee for the Italian Biometric Society Conference 2013

Board of directors of the Italian section of the IBS

2016-2017: committee for the tenure-track evaluation of Italian researchers in Medical Statistics

European Meeting of Statisticians 2017 (Bernoulli Society): session organizer

10/2022 Organiser and speaker for the round table "Risk of death in irregular migrant populations" for #futuresight Tor Vergata

Third Mission

StatGroup-19: founder . StatGroup-19 is a group of five Italian professors involved in third mission and research activities to study covid-19. A Facebook page and blog are frequently updated. The Facebook page has more then 5000 followers, and its posts have reached more than 100,000 distinct users.

On 28 May 2020, 17, 26 and 29 June 2020, 7 and 15 July 2020, 3 and 16 September 2020, 6 and 20 October 2020, 15 November 2020, 3 and 16 December 2020, 4, 22 and 31 January 2021, 21 February 2021,10, 20 and 28 March 2021, 11 and 29 April 2021, 6 and 28 May 2021, 5 and 23 June 2021, 9 and 28 July 2021, 19 August 2021, 24 September 2021, 29 October 2021, 9 and 25 November 2021, 10 December 2021, 12 January, 9 and 23 February 2022 appeared on TV, interviewed by SkyTG24 for the program "I numeri della pandemia". The program was 45 minutes long until November 2020; one hour afterwards.

Interviewed a few times by "Avvenire", "Il Giornale" and "Il Sole 24 Ore" newspapers, twice by "Abitare a Roma", once by "Free.it".

Intervewed five times by ReteSport Radio and once by Radio InBlu.

Interviewed by the blog "Math Is In The Air", a blog promoting applied mathematics; about what is statistics and what a statistician does.

17/06/2023 Avvenire reported (with link from first page) the results of the paper "Estimating the number of attacks to civilians in Ukraine: a quantitative analysis from media sources"

Funding

2006   PRIN (Multicenter National Interest Project) "Sviluppi ed applicazioni nella teoria dei test multipli (New developments and applications in multiple testing)". National Coordinator: Prof. Walter Racugno
2008   PRIN (MNIP) "Verosimiglianza e metodi non parametrici con applicazioni a dati clinici e cosmologici (Likelihood based non-parametric methods for clinical and cosmological data ", National Coordinator: Prof. Isabella Verdinelli
2008   Local research grant: "Confounding da condizioni non sperimentali in farmacoepidemiologia, con valutazione del rischio-beneficio dei bifosfonati nella prevenzione secondaria delle fratture osteoporotiche (Confounding in pharmacoepidemilogy, with risk-benefit analysis of bifosphonates in secondary prevention of ostheoporosis)", principal investigator. The project is part of a larger multicenter project of national interest.
2009 Local research grant: "Analisi di Sopravvivenza nello Scompenso cardiaco dell'anziano: uno studio basato sul Lazio (Survival analysis in coronary hearth disease in elderly: a study about the Lazio region of Italy)", principal investigator.
2009 EIEF research grant "Advances in non-linear panel models with socio-economic applications", principal investigator: Prof. Francesco Bartolucci.
2011 EU project JUST/2010/DPIP/AG/1410: New methodological tools for policy and programme evaluation. Italian principal investigator: Prof. Carla Rossi.

2012 Project for acquisition of equipment "TeraStat: Infrastruttura di calcolo ad alte prestazioni per lo sviluppo e la sperimentazione di modelli matematici e statistici su grandi moli di dati", PI: Prof. Paolo Dell'Olmo.

2012 Research grant: "Prospective study on CHD preventing drugs in clinical practice", principal investigator; funding agency: Italian Government

2013 Research grant funded by Italian ministry for foreign affairs: "Estabilishment of a Plant Resources Regional Network in the SADC Region: a service of environmental conservation of biodiversity and for sustainable development (SECOSUD)", principal investigator: Dr. Fabio Attorre

2014 Research grant: "New methods for planning of Phase II, Phase III trials and epidemiological experiments", principal investigator; funding agency: Italian Government

2014 Research grant: "Advances in population size estimation ", principal investigator; funding agency: Italian Government

2015 Grant for access to project data of FAO "Voices of the hungry" and Gallup World Poll survey data

2016 EIEF research grant "An appraisal of material deprivation based on static and dynamic latent class models", Principal Investigator

2016 PRIN2015 "Molecular, translational and clinical aspects of age related metabolic diseases". National coordinator: Prof. Giuseppe Paolisso

2016 Research grant: "An appraisal of hospitalization patterns, and their information content, in multiple sclerosis", principal investigator; funding agency: Italian Government

2017 Funding for basic research activities, granted by ANVUR (Italian Government) to top 25% associate professors working in Italy

2018 Sapienza grant "Multiple sclerosis in Italy: a study based on innovative capture-recapture methods", PI.

2018 Visiting Scholar Grant, University of South Carolina

2019 Royal Statistical Society International Exchanges Grant for two-years repeated visits to University of Kent

2020 Grant for access to project data of FAO "Voices of the hungry" and Gallup World Poll survey data

2021 FISR 2020 COVID grant FISR2020IP_00156 "SMIGE", co-PI

2022 Department of Economics and Finance project "Innovative Statistical Methods for Anti Fraud Analysis of Big Customs Data", PI

2022 PNRR PE9 "GRINS" – Spoke 0, PI: Prof. Vincenzo Atella

2022 PRIN PE1 "Innovative statistical tools for the analysis of large and heterogeneous customs data", PI of local unit

Visiting Positions

Nov 2003:   Visiting Scholar at Carnegie Mellon University, Pittsburgh, PA (USA)
Jan-Jul 2012: Visiting Professor at University of Hawaii @ Manoa, Hololulu, HI (USA)
Nov 2014: Visiting Professor at Georgia Augusta University, Goettingen (Germany)
Apr-May 2015: Visiting Professor at University of Heraklion & Foundation for the Research and Technology Hellas, Heraklion (Greece)
Nov 2017: Visiting Professor at Universidade Eduardo Mondlane, Maputo (Mozambique)
Mar-Apr 2019: Visiting Scholar at University of South Carolina, Columbia, SC (USA)
Nov 2019: Visiting Scholar at University of Padova, Padova, Italy
Dic 2019: Visiting Scholar at University of Kent, Canterbury, U.K.

Other scientific activities:

2001 - 2002   Master's student at Carnegie Mellon University, Pittsburgh, PA (USA)
2003   Italian edition of "Formule Matematiche per le scienze economiche (Mathematical formulas for economic sciences)", Springer
2004 - 2014   Trainer for SPSS Italy.

2005	Post-doc at CASPUR, Consorzio interuniversitario per le Applicazioni di Supercalcolo per Universita' e Ricerca, for statistical applications in genetics, in particular microarray data.
2005 - 2007	Assistant Editor for "*Metron – International Journal of Statistics*".
2006 - 2007	Temporary assistant professor at the Department of Statistics, Sapienza – University of Rome
2006 - 2007	Referee for european research grants at CORDIS, Servizio Comunitario di Informazione in materia di Ricerca e Sviluppo
2007 - 2012	Executive Editor for "*Biomedical Statistics and Clinical Epidemiology*"
2009 - 2013	Member of the board of the Italian region of International Biometric Society.
since 2011	Expert evaluator of "Ideas" research program funded by the Romanian Government through the National Council for Scientific Research
since 2014	Evaluator of funding applications for the Scientific Committee of the Italian Multiple Sclerosis Society
since 2014	Associate Editor of Statistical Methods & Applications
since 2014	Evaluator of projects for the national research funding competition of Chile
since 2014	Evaluator of projects for the Natural Sciences and Engineering Research Council of Canada
2014	Member of the committee for the award of Ph.D.s in statistics of university of Padua
2015	Member of the committee for the award of Ph.D.s in applied statistics of university of Florence
since 2015	Associate Editor for De Gruyter International Journal of Biostatistics
2016 of	Member of the committee for the award of Ph.D.s in statistics of university Padua
2016	External evaluator for the award of Ph.D.s in statistics of university of Padua
2017	Consultant for Food & Agriculture Organization (FAO) of the United Nations (for the Fisheries & Aquaculture Statistics Division)
2019-2021	Consultant for Bank of Italy for projects related to Supervised Learning, Unsupervised Learning, Natural Language Processing
2021	Technical Consultant for the President of the Court of Appeal of Bologna for the murder trial with defendant Daniela Poggiali

Served as a referee (often multiple times) for "Journal of the American Statistical Association", "Biometrika", "Annals of Statistics", "Biometrics", "Annals of Applied Statistics", "Scandinavian Journal of Statistics", "Statistical Science", "Journal of Multivariate Analysis", "Statistical Methods in Medical Research", "Electronic Journal of Statistics", "Bayesian Analysis", "Bioinformatics", "Psychometrika", "Journal of Computational and Graphical Statistics", "Journal of Classification", "Statistics and Computing", "Computational Statistics and Data Analysis", "International Journal of Biostatistics", "Journal of Statistical Planning and Inference", "Pharmaceutical Statistics", "Australian & New Zealand Journal of Statistics", "Scientific Reports*"*, "PLoS ONE", "Statistics & Probability Letters", "Statistical Modeling", "Stat", "REVSTAT", "Advances in Data Analysis and Classification", "Metron", "Statistical Methods & Applications", "Biometrical Journal","Machine Learning with Applications", "Drug safety", "Communications in Statistics - Theory and Methods", "IETE Technical Review"."Journal of Statistical Computation and Simulation", "Journal of Applied Statistics", "Statistical Papers", "Journal of Statistical Theory and Practice", "Information Sciences", "American Statistician", "Statistics", "Sociological Methods Research", "The international journal of clinical practice", "Annali di Igiene", "BMC Cancer", "Economic Modelling", "Thrombosis and Haemostasis" and the international book series "Studies in Theoretical and Applied Statistics". From 2004 to 2017, reviewer for Mathematical Reviews, American Mathematical Society. For selected journals, an incomplete account of repeated referee service is reported in Publons under the identifier */a/1260148*

Reviewer of book proposals for Wiley. Referee for Italian Goverment for research projects and for evaluation of quality of research (VQR).

Speaker or invited speaker for tens of presentations (5 plenary/keynote) in national and international workshops and conferences; and 33 seminars in Italy, Greece, U.K., Spain, France, U.S.A., and Germany.

On the selection board for two post-doc positions, one assistant and one full professor position.

Awards

2023 International award on Innovation in Blended Learning for the course "Big Data Analysis for Economics, Finance, and Business"
2007 Best Ph.D. Thesis in biostatistics and epidemiology, awarded by Italian Society for
Statistics in Medicine and Epidemiology.
2006 Chikio Hayashi Award for promising young researchers awarded by International
Federation of Classification Societies
2005 Best Ph.D. Thesis in Statistics in Italy, awarded by Italian Statistical Society

Teaching experience in Universities:

University of Rome "Tor Vergata" (2020-current)

co-supervisor of the Reading Group on "Bayesian Methods for Statistics, Econometrics, and Finance"

"Latent Variable Models" (18h) for the Ph.D. in Economics and Rome Economics Doctorate (taught in English)

"Big Data Analysis for Economics, Finance, and Business" (36h) for students of the master in "Economics" and "Finance and Banking" (taught in English) - this course received the label of quality as Blended Learning Course by the Blended Learning Award committee; and in 2023 won the Bleanded Learning International prize

"Quantitative Methods III" (36h) for students of Bachelor in Business Administration (taught in English)

"Statistical Learning" (21h) for students of the Bachelor in Global Governance (taught in English)

"Unsupervised Learning" (36h) for students of the master in "Big Data in Business" (taught in English)

University of Palermo

Introduction to modern multiple testing (6h) for ph.d. students

University of Padova

Introduction to modern multiple testing (4h) for L.M. students

"Sapienza" - UNIVERSITY OF ROME (2006-2019)

Statistical Methods for Clinical Research (2h) for students in the "track of excellence" in Life Sciences at the Scuola Superiore di Studi Avanzati – Sapienza University of Rome

Bias and Confounding (4h) for the specializing med school students

Statistics in medicine (8h) for the med school students (taught in English)

Statistics in medicine (32h) for the med school students – B track

Statistics in medicine and epidemiology (8h) for the med school students – B track

Introduction to modern multiple hypothesis testing (12h) for Ph.D. Students in Statistical Methodology.

Probability (20h) for Master's degree in Prevention Sciences.

Epidemiology (12h) for Master's degree in Biostatistics

Statistics, Mathematics and Informatics (16h) for bachelor degree in ostetrics, Faculty of Medicine.

Statistics, Mathematics and Informatics (16h) for bachelor degree in radiology, Faculty of Medicine.

Statistics for experimental research (20h) for bachelor degree in radiology, Faculty of Medicine

Statistical Inference (24h) for Scuola di specializzazione in Statistica Sanitaria, Faculty of Medicine.

Statistics (12h) for bachelor degree in audiomety, Faculty of Medicine.

Teaching Assistant (TA, 16h) (with software R) for "Statistical Inference", bachelor degree in "Statistica e Informatica per la Gestione Aziendale", Faculty of Statistics (Prof. M. Perone Pacifico).

TA (16h) (with software Excel) for "Introduction to Statistics", bachelor degree in "Statistica Popolazione e Ricerca Sociale", Facolty of Statistics (Prof. M. Perone Pacifico).

Teaching for special classes about the software R (introduction to R, introduction to statistics with R, multivariate statistics with R).

University of Pavia

Bayesian Biostatistics (20h) for master's students in biostatistics and clinical epidemiology

University of South Carolina

"Latent Markov models for Longitudinal Data Analysis", 8h, for postgraduate students of the university

Universidade Eduardo Mondlane

Introduction to Statistics and Machine Learning with R software

University of Hawaii @ Manoa

PH 656 – Biostat II (3 credits, 45 hours) for Ph.D. And Master Students in Public Health

University of Sannio

Introduction to multiple testing (4h), ph.d. in Bioinformatics.

UNIVERSITY ROMA3 (2002-2008)

TA (40h each year, five years) for "Multivariate Statistics", Faculty of Economics (Prof. S. Terzi).

TA (13h) for "Multivariate Statistics", Master in Human and Food Development (Prof. S. Terzi).

UNIVERSITY OF TOR VERGATA (2005-2008)

Introduction to Statistics and Statistical Inference (40h each year, two years), Bachelor degree in Human Biology, Faculty of Science

Introduction to Statistics (20h), Bachelor degree in Nutrition Sciences, Faculty of Science

Statistical Inference (24h), Bachelor degree in Biotechnology, Faculty of Science

Multivariate Statistics (40h) with the use of the software R for Ph.Ds of the Faculties of Science and Medicine

TA (12h) with the use of the software R for "ANOVA and regression" for Ph.Ds of the Faculties of Science and Medicine (Prof. G. Scalia Tomba, Prof. A. Nardi).

TA (20h) with the use of the software R for "Linear Models" for the master in biostatistics of Centro Interdipartimentale di Biostatistica e Biomedicina (Prof. G. Scalia Tomba)

UNIVERSITY OF BOLOGNA (2007-2008)

TA (12h each year for two years) for "Survival Analysis" with the software STATA for the Master in Biostatistics, Faculty of Statistics (Prof. A Nardi)

CARNEGIE MELLON UNIVERSITY, PITTSBURGH, USA (2001-2002)

TA for: Probability for Engineers, Introduction to Statistical Methods, Introduction to Probability & Statistics for Bachelor Degrees.

TA for "Introduction to Probability & Statistics", Master in Business Administration

Other teaching experience

Alessio Farcomeni's teaching experience includes a large number of classes about introduction to the use of SPSS, statistical inference with SPSS, descriptive statistics with SPSS, multivariate statistics with SPSS, analysis of time series with SPSS and other classes on different topics in advanced statistics on behalf of SPSS – Italy. Classes are either focused on applications in marketing (MKT modules), economics (BUS-AZ modules), social sciences (SOC modules), scientific research (SRS modules). A complete syllabus for each class is available from the website http://www.spss.it

The partnership with SPSS – Italy started in 2004

"Introduction to statistics and probability with SAS", "Time series analysis with SAS" for Bank of Italy researchers.

Supervisor of 2 bachelor thesis in statistics, 2 bachelor thesis in Economics, 2 master theses in health statistics, 2 master thesis in analysis of big data, 2 ph.d. theses in statistical methodology, 1 ph.d. thesis in economics. Co-supervisor of 3 bachelor theses in environmental biology. Supervisor of 2 Post-docs (temporary assistant professors).

On the selection board for two post-doc positions, three assistant and one full professor position.

Foreign Languages:

English as a second language (Certified by TOEFL and International Teaching Assistant (ITA) Test, which certifies ability of teaching in English). Good Spanish (Certified level B by FAO), basic French and Portuguese

Software:

Excellent proficency with R/Splus, SPSS, Matlab, Stata, SAS, WinBUGS, Mathematica, Maple, and the C programming language.

List of Publications

Preprints in pdf for selected publications are available at http://www.afarcome.altervista.org/cv.html

Books:

Farcomeni, A. and Greco, L. (2015) "*Robust Methods for Data Reduction*", Chapman & Hall/CRC Press

Bartolucci, F. And **Farcomeni, A.** And Pennoni, F. (2013) "*Latent Markov Models for Longitudinal Data*", Chapman & Hall/CRC Press

Patents

PCT/EP2016/075403 - Genetic markers for distinguishing of the phenotype of a Cannabis sativa sample

Software

R package snipEM: snipping methods for robust estimation and clustering (contributor and mantainer); downloaded more than 16.000 times (May 2020)
R package someKfwer: Kfwer control without level adjustment (contributor); downloaded more than 17.000 times (May 2020)
R package someMTP: FDR control without level adjustment (contributor); downloaded more than 21.000 times (May 2020)
R package LMest: Latent Markov models estimation (contributor); downloaded more than 30.000 times (May 2020)
R package longROC: Received Operating Characteristic curves, Area Under the Curve and Net Reclassification Indeces with repeatedly measured scores or biomarkers (unique contributor and mantainer); downloaded more than 8000 times (May 2020)

R package nlmm: generalized Laplace mixed effects models (contributor); downloaded more than 1000 times (May 2020)

https://github.com/afarcome/Lmrectangular : Rectangular latent Markov models
https://github.com/afarcome/lmjm : Continuous-time latent Markov joint longitudinal-survival models
https://github.com/afarcome/mtclust : Trimmed parsimonious model-based clustering
https://github.com/afarcome/LMdim : "Longitudinal dimension reduction"

Breast-V app for Android & Apple devices: breast volume assessment.

Pubblications in Statistics:

2023

Redivo, E. and Viroli, C. and **Farcomeni, A.** (2023) Quantile-distribution functions and their use for classification, with application to naive Bayes classifiers, *Statistics and Computing*, **33**, 55

Acquah, E. and Carbonari, L. and **Farcomeni, A.** and Trovato, G. (2023) Institutions and Economic Development: New Measurements and Evidence, *Empirical Economics*, to appear

Farcomeni, A. (2023) A likelihood ratio test for completed sampling in population size estimation studies, *Biometrical Journal*, **62**, 2200129

Altieri, L. and **Farcomeni, A.** and Alunni Fegatelli, D. (2023) Continuous time-interaction processes for population size estimation, with an application to drug dealing in Italy, *Biometrics*, **79**, 1254-1267

2022

Russo, A. and **Farcomeni, A.** and Pittau, M. G. and Zelli, R. Covariate-modulated rectangular latent Markov models with an unknown number of regime profiles, *Statistical Modeling*, to appear

Bartolucci, F. and **Farcomeni, A.** (2022) A hidden Markov space-time model for mapping of the dynamics of global access to food, *Journal of the Royal Statistical Society (Series A)*, **185**, 246-266

Riani, M. and Atkinson, A. C. and Corbellini, A. and **Farcomeni, A.** and Laurini, F. (2022) Information Criteria for Outlier Detection Avoiding Arbitrary Significance Levels, *Econometrics and Statistics*, to appear

Pierfrancesco Alaimo Di Loro, Fabio Divino, **Alessio Farcomeni**, Giovanna Jona Lasinio, Gianfranco Lovison, Antonello Maruotti, and Marco Mingione (2022) Covid-19 in Italy: Modelling, communications, and collaborations, *Significance*, **19**, 19-21

Farcomeni, A. (2022) How many refugees and migrants died trying to reach Europe? Joint population size and total estimation, *Annals of Applied Statistics*, **16**, 2339-2351

Farcomeni, A. and Geraci, M. and Viroli, C. (2022) Directional Quantile Classifiers, *Journal of Computational and Graphical Statistics*, **31**, 907-916

Geraci, M. and **Farcomeni, A.** (2022) Mid-quantile regression for discrete responses, *Statistical Methods in Medical Research*, **31**, 821-838

Mingione, M. and Alaimo Di Loro, P. and **Farcomeni, A.** and Divino, F. and Lovison, G. and Maruotti, A. and Jona Lasinio, G. (2022) Spatial modelling of COVID-19 incidence cases using Richards' curve: an application to the Italian regions, *Spatial Statistics*, **49**, 100544

Bartolucci, F. and **Farcomeni, A.** (2022) A spatio-temporal model based on discrete latent variables for the analysis of COVID-19 incidence, *Spatial Statistics*, **49**, 100504

Farcomeni, A. and Geraci, M. (2022) Contribution to the 'The First Discussion Meeting on Statistical aspects of the Covid-19 pandemic', *Journal of the Royal Statistical Society (Series A)*, **185**, 1829-1830

Di Mari, R. and Dotto, F. and **Farcomeni, A.** and Punzo, A. (2022) Assessing measurement invariance for longitudinal data through latent Markov models, *Structural Equation Modeling*, **29**, 381-393

2021

Farcomeni, A. and Dotto, F. (2021) A correction to make Chao estimator conservative when the number of sampling occasions is finite, *Statistics and Probability Letters*, **176**, 109154

Alaimo Di Loro, P., Divino, F., **Farcomeni, A.**, Jona Lasinio, G., Lovison, G., Maruotti, A., and Mingione, M. (2021) Nowcasting COVID-19 incidence indicators during the Italian first outbreak, *Statistics in Medicine*, **40**, 3843-3864

Marra, G. and **Farcomeni, A.** and Radice, R. (2021) Link-based survival additive models under mixed censoring to assess risks of hospital-acquired infections, *Computational Statistics and Data Analysis*, **155**, 107092

Farcomeni, A. and Maruotti, A. and Divino, F. and Jona-Lasinio, G. and Lovison, G. (2021) An ensemble approach to short-term forecast of COVID-19 intensive care occupancy in Italian regions, *Biometrical Journal*, **63**, 503-513

Farcomeni, A. and Ranalli, M. and Viviani, S. (2021) Dimension reduction for longitudinal multivariate data by optimizing class separation of projected latent Markov models, *TEST*, **30**, 462-480

2020

Geraci, M. and **Farcomeni, A.** (2020) A family of linear mixed-effects models using the generalized Laplace distribution, *Statistical Methods in Medical Research*, **29**, 2665-2682 (with R package *nlmm* available on CRAN)

Geraci, M., Boghossian, N. S., **Farcomeni, A.** and Horbar, J. D. (2019) Quantile contours and allometric modelling for risk classification of abnormal ratios with an application to asymmetric growth-restriction in preterm infants, *Statistical Methods in Medical Research*, **29**, 1769-1786

Farcomeni, A. (2020) Population size estimation with interval censored counts and external information: prevalence of multiple sclerosis in Rome, *Biometrical Journal*, **62**, 945-956

Farcomeni, A. and Geraci, M. (2020) "Multi-state quantile regression models", *Statistics in Medicine*, 39, 45-56

Farcomeni, A. and Punzo, A. (2020) Robust model-based clustering with mild and gross outliers, *TEST*, **29**, 989-1007

2019

Cerioli, A., **Farcomeni, A.** and Riani, M. (2019) Wild adaptive trimming for robust estimation and cluster analysis, *Scandinavian Journal of Statistics*, **46**, 235-256

Dotto, F., **Farcomeni, A.**, Pittau, M. G. and Zelli, R. (2019) A dynamic inhomogeneous latent state model for measuring material deprivation, *Journal of the Royal Statistical Society (Series A)*, **182**, 495-516

Dotto, F. and **Farcomeni, A.** (2019) Robust inference for parsimonious model-based clustering, *Journal of Statistical Computation and Simulation*, **89**, 414-442

Bartolucci, F. and **Farcomeni, A.** (2019) A shared-parameter continuous-time hidden Markov and survival model for longitudinal data with informative drop-out, *Statistics in Medicine*, **38**, 1056-1073

Anderson, G., **Farcomeni, A.**, Pittau, M. G. and Zelli, R. (2019) Rectangular latent Markov models for time-specific clustering, with an analysis of the well being of nations, *Journal of the Royal Statistical Society (Series C)*, **68**, 603-621

Anderson, G., **Farcomeni, A.**, Pittau, M. G. and Zelli, R. (2019) Multidimensional nation wellbeing, more equal yet more polarized: an analysis of the progress of human development since 1990, *Journal of Economic Development*, **44**(1)

2018

Farcomeni, A. (2018) Fully general Chao and Zelterman estimators with application to a Whale Shark population, *Journal of the Royal Statistical Society (Series C)*, **67**, 217-229

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