

PERSONAL INFORMATION

Alessio Farcomeni

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🌐 <http://www.afarcome.altervista.org/cv.html>

WORK EXPERIENCE

September 2019 – present **Full Professor in Statistics**

Tor Vergata – University of Rome, Department of Economics and Finance

- Research and teaching undergraduate and graduate level classes

November 2007 – September 2019

Assistant & Associate professor in Statistics in Medicine

Sapienza – University of Rome, Department of Public Health and Infectious Diseases

- Research and teaching undergraduate and graduate level classes

February 2005 – October 2007

Temporary assistant professor in Statistics

Sapienza – University of Rome, Department of Statistics

- Research and teaching undergraduate and graduate level classes

February 2004 – January 2005

Researcher

CASPUR, Consorzio interuniversitario per le Applicazioni di Supercalcolo per Università e Ricerca

Research and analysis of data for genomic applications

Experience in managing Statistical projects

2006 - 2008	Participant to the Italian Ministry of Education and Research project “ New developments and applications in multiple testing ”.
2008 - 2012	Participant to the Italian Ministry of Education and Research project “ Likelihood based non-parametric methods for clinical and cosmological data
2008 - 2010	Principal investigator of the Italian Ministry of Education and Research project “Confounding in pharmacoepidemiology, with risk-benefit analysis of bifosphonates in secondary prevention of osteoporosis ”.
2009 - 2011	Principal investigator of the Italian Ministry of Education and Research project “ Survival analysis in coronary hearth disease in elderly: a study about the Lazio region of Italy ”.
2009- 2011	Participant to the Bank of Italy research grant “ Advances in non-linear panel models with socio-economic applications
2012 - 2014	Project for acquisition of equipment “TeraStat”
2012 – 2012	Principal investigator of the project “Prospective study on CHD preventing drugs in clinical practice ”.

- 2011-2013 Participant in the EU project JUST/2010/DPIP/AG/1410: New methodological tools for policy and programme evaluation.
- 2016 EIEF grant “An appraisal of material deprivation based on static and dynamic latent class models”, PI
- 2016 PRIN “Molecular, translational and clinical aspects of age related metabolic diseases”. PI: Prof. Giuseppe Paolisso
- 2017 MIUR FFABR funds, granted to the top 25% of associate professors in Italy. Mark: 100/100.
- 2019 Royal Statistical Society International Exchanges Grant for two-years repeated visits to University of Kent
- 2021 FISR 2020 COVID grant FISR2020IP_00156 “SMIGE”, co-PI
- 2022 PRIN PE1 “Innovative statistical tools for the analysis of large and heterogeneous customs data”, PI of local unit

Released Software

- R package *snipEM*: snipping methods for robust estimation and clustering
- R package *someKfwer*: Kfwer control without level adjustment
- R package *someMTP*: FDR control without level adjustment
- R package *LMest*: Latent Markov models estimation

Formal professional qualifications

- 2013 Competitively qualified for the role of Associate Professor in Econometrics
- 2013 Competitively qualified for the role of Associate Professor in Statistics in Medicine
- 2012 Competitively qualified for the role of Full Professor in Statistics

EDUCATION AND TRAINING

- 2004 **PhD in Statistics**. Thesis title “Multiple testing procedures under dependence”
Department of Statistics, Sapienza – University of Rome
- 2001 **Bachelor of Science in Statistics**
Sapienza, University of Rome, Italy
- Final mark: 110/110 cum laude
- Subjects Included:
- Methodological statistics

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Spanish	C1	C1	B2	B2	B1
French	A2	B1	B1	B1	A2

Communication skills

- Excellent communication skills gained through my experience as teacher of Statistics and speaker in national and international meetings. Experienced at giving presentations to large audiences

Organisational / managerial skills

- Excellent organisational and prioritisation skills

Computer skills	Proficient with the following programs: R. Matlab. Proficient of Microsoft Office™ tools. Discrete knowledge of C and C++
Other skills	Professional Shiatsu and Tui-na therapist
Driving licence	A, B

ADDITIONAL INFORMATION

Publications in International Journals in the field of statistics (years 2000- 2024)

2024

Farcomeni, A. and Geraci, M. Quantile ratio regression, *Statistics and Computing*, 34, 94

Russo, A. and Farcomeni, A. A Copula formulation for multivariate latent Markov models, *TEST*, to appear (with Web Appendix)

Russo, A. and Farcomeni, A. and Geraci, M. Mid-quantile regression for discrete panel data, *Journal of Statistical Computation and Simulation*, to appear (with Web Appendix)

Riani, M. and Atkinson, A. C. and Corbellini, A. and Farcomeni, A. and Laurini, F. Information Criteria for Outlier Detection Avoiding Arbitrary Significance Levels, *Econometrics and Statistics*, 29, 189-205

Bagnato, L. and Farcomeni, A. and Punzo, A. The generalized hyperbolic family and automatic model selection through the multiple-choice LASSO, *Statistical Analysis and Data Mining*, 17, 1, e11652

2023

Farcomeni, A. and Maruotti, A. Estimating the number of attacks to civilians in Ukraine: a quantitative analysis from media sources, *Peace Review*, to appear

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

Farcomeni, A. A likelihood ratio test for completed sampling in population size estimation studies, *Biometrical Journal*, 65, 2200129 (with Code)

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

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 (with Web Appendix and Code)

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

Bartolucci, F. and Farcomeni, A. 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 (with Supplementary Material)

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

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

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

Mingione, M. and Alaimo Di Loro, P. and Farcomeni, A. and Divino, F. and Lovison, G. and Maruotti, A. and Jona Lasinio, G. 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. 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. Contribution to "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. Assessing measurement invariance for longitudinal data through latent Markov models, *Structural Equation Modeling*, 29, 381-393

2021

Farcomeni, A. and Dotto, F. 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. Nowcasting COVID-19 incidence indicators during the Italian first outbreak, *Statistics in Medicine*, 40, 3843-3864

Marra, G. and Farcomeni, A. and Radice, R. 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. 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. 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 Supplementary Material)

Geraci, M., Boghossian, N. S., Farcomeni, A. and Horbar, J. D. (2020) 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 (with Supplementary Material)

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

2019

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

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

2018

Dotto, F., Farcomeni, A., Garcia-Escudero, L.A. and Mayo-Iscar, A. (2018) A Reweighting Approach to Robust Clustering, *Statistics and Computing*, 28, 477-493 (with Supplementary Material)

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 (with R code)

F. Dotto and A. Farcomeni (2018) A generalized Chao estimator with measurement error and external information, *Environmental and Ecological Statistics*, 25, 53-69

G. Barbati and A. Farcomeni (2018) Prognostic assessment of repeatedly measured time-dependent biomarkers, with application to dilated cardiomyopathy, *Statistical Methods & Applications*, 27, 545-557 (with R package longROC on CRAN)

A. Farcomeni and F. Dotto (2018) The power of (extended) monitoring in robust clustering, *Statistical Methods & Applications*, 27, 651-660

2017

Bartolucci, F., Farcomeni, A. and Scaccia, L. (2017) A nonparametric multidimensional latent class IRT model in a Bayesian framework, *Psychometrika*, 82, 952-978

Farcomeni, A. (2017) Penalized estimation in latent Markov models, with application to monitoring serum Calcium levels in end-stage kidney insufficiency, *Biometrical Journal*, 59, 1035-1046 (with R code)

Dotto, F., Farcomeni, A., Garcia-Escudero, L.A. and Mayo-Iscar, A. (2017) A fuzzy approach to robust regression clustering, *Advances in Data Analysis and Classification*, 11, 691-710 (with supplementary material)

Farcomeni, A. (2017) Contribution to the discussion of the paper by Stefan Wellek: A biostatistician's view on the current p-value controversy, *Biometrical Journal*, 59, 880-881

Lagani V., Athineou A., Farcomeni A., Tsagris M. and Tsamardinos I. (2017) Feature selection with the R package MXM: discovering statistically-equivalent feature subsets, *Journal of Statistical Software*, 80

Farcomeni, A. (2017) Robust Double Clustering, *Wiley StatsRef-Statistics Reference Online*, art. 08020.

2016

Greco, L. and Farcomeni, A. (2016) A plug-in approach to sparse and robust Principal Component Analysis TEST, 25, 449-481

Farcomeni, A. (2016) A general class of recapture models based on the conditional capture probabilities, *Biometrics*, 72, 116-124 (with supplement and R code)

Alunni Fegatelli, D. and Farcomeni, A. (2016) On the design of closed recapture experiments, *Biometrical Journal*, 58, 1273-1294 (with supplement and R code)

Farcomeni, A. (2016) A MANOVA test for multivariate lognormal observations with a spike at zero, with application to ecological niches of South Africa, *Biometrical Journal*, 58, 320-330

Marco Geraci, Alessio Farcomeni (2016) Probabilistic principal component analysis to identify profiles of physical activity behaviours in the presence of nonignorable missing data, *Journal of the Royal Statistical Society (Series C)*, 65, 51-75

2013

Alessio Farcomeni and Daria Scacciatelli "Observed heterogeneity, unobserved heterogeneity and complex behavioral response in continuous time capture-recapture, with application to estimation of the number of cannabis users in Italy", *Annals of Applied Statistics*, **7**, 2293-2314. A synthesis of this paper has been included in a report to the Italian "Presidenza del Consiglio dei Ministri".

Alessio Farcomeni and Livio Finos "FDR Control with Pseudo-Gatekeeping Based on a Possibly Data Driven Order of the Hypotheses", *Biometrics*, **69**, 606-613

Francesco Bartolucci and **Alessio Farcomeni** "Causal inference in paired two-arm experimental studies under non-compliance with application to prognosis of myocardial infarction", *Statistics in Medicine*, **32**, 4348-4366

Ceroli, A.; **Farcomeni, A.** and Riani, M. "Robust distances for outlier free goodness of fit testing", *Computational Statistics & Data Analysis*, **65**, 29-45.

2012

Farcomeni, A. and Tardella, L. "Identifiability and inferential issues in capture-recapture experiments with heterogeneous detection probabilities", *Electronic Journal of Statistics*, 2012, **6**, 2602-2626.

Bartolucci, F.; Scaccia, L.; **Farcomeni, A.** "Bayesian inference through encompassing priors and importance sampling for a class of marginal models for categorical data", *Computational Statistics & Data Analysis*, 2012, **56**, 4067-4080.

Alessio Farcomeni and Serena Arima "A Bayesian autoregressive three-state hidden Markov model for identifying switching monotonic regimes in Microarray time course data", *Statistical Applications in Genetics and Molecular Biology*, 2012, **11**(4), article 3

E. Fabrizi, **A. Farcomeni**, V. Gatta. "Modelling work history patterns in the Italian labour market", *Statistical Methods & Applications*, 2012, **21**, 227-247

Alessio Farcomeni "Generalized Augmentation to control the k-FamilyWise Error Rate", *International Journal of Statistics in Medical Research*, 2012, **2**, 113-119

Alessio Farcomeni, Laura Ventura "An overview of robust methods in medical research", *Statistical Methods in Medical Research*, 2012, **21**, 111-133

Alessio Farcomeni "Testing supremacy or inferiority of multinomial cell probabilities after adjusting for covariate effects, with application to biting preferences of loggerhead marine turtles", *Communications in Statistics – Theory and Methods*, 2012, **41**, 34-45.

Alessio Farcomeni "Quantile Regression for longitudinal data based on latent Markov subject-specific parameters", *Statistics and Computing*, 2012, **22**, 141-152.

2011

Alessio Farcomeni "Recapture models under equality constraints for the conditional capture probabilities", *Biometrika*, 2011, **98**, 237-242.

Farcomeni, A.; Nardi, A.; Fabrizi, E. "Joint analysis of occurrence and time to stability after entrance into the Italian labor market: an approach based on a Bayesian cure model with structured stochastic search variable selection", *Journal of Applied Statistics*, 2011, **38**, 2627-2646.

Sara Viviani and **Alessio Farcomeni** "Trimmed Cox regression for Robust Estimation in Survival Studies", *Biometrical Journal*, 2011, **53**, 956-973.

Bianca Di Lorenzo, Natalia Golini, **Alessio Farcomeni** "A Bayesian model for presence-only semicontinuous data, with application to prediction of abundance of *Taxus Baccata* in two Italian regions", *Journal of Agricultural, Biological and Environmental Statistics*, 2011, **16**, 339-356.

Alessio Farcomeni, Simona Pacillo "A conservative estimator for the proportion of false nulls based on Dzvoretzky, Kiefer and Wolfowitz inequality", *Statistics & Probability Letters*, 2011, **81**, 1867-1870

Alessio Farcomeni "Hidden Markov Partition Models", *Statistics & Probability Letters*, 2011, **81**, 1766-1770

Livio Finos, **Alessio Farcomeni** "k-FWER control without multiplicity correction, with application to detection of genetic determinants of multiple sclerosis in Italian twins", *Biometrics*, 2011, **67**, 174-181. A related R package under the name of `someKfwer` has been made available on CRAN. This paper has been invited to a Biometrics Showcase at the sixth conference of the EMR of IBS.

Marco Alfò, **Alessio Farcomeni**, Luca Tardella "A three component latent class model for robust semiparametric gene discovery", *Statistical Applications in Genetics and Molecular Biology*, 2011, **10**, 7

Andrea Cerioli, **Alessio Farcomeni** "Error rates for multivariate outlier detection", *Computational Statistics & Data Analysis*, 2011, **55**, 544-554

2010

Bartolucci, F. and **Farcomeni, A.** "A note on mixture transition distribution and hidden Markov models", *Journal of Time Series Analysis*, 2010, **31**, 132-138

Farcomeni, A. and Nardi, A. "A Two-Component Weibull Mixture to Model Early and Late Mortality in a Bayesian Framework", *Computational Statistics & Data Analysis*, 2010, **54**, 416-428.

Farcomeni, A. and Tardella, L. "Bayesian Methods for Alternative Recapture Models with Heterogeneity", 2010, *TEST*, **19**, 187-208

Farcomeni, A. "Bayesian Constrained Variable Selection", *Statistica Sinica*, 2010, **20**, 1043-1062.

2009

Farcomeni, A. "Generalized Aumentation Procedure to control the False Discovery Exceedance in multiple testing", 2009, *Scandinavian Journal of Statistics*, **36**, 501-517

Bartolucci, F. and **Farcomeni, A.** "A multivariate extension of the dynamic logit model for longitudinal data based on a latent Markov heterogeneity structure", *Journal of the American Statistical Association*, 2009, **104**, 816-831.

Farcomeni, A. "An Exact Approach to Sparse Principal Component Analysis", *Computational Statistics*, 2009, **24**, 583-604.

Farcomeni, A. "Robust Double Clustering", *Journal of Classification*, 2009, **26**, 77-101.

Alessio Farcomeni, Gian Luca Di Tanna, Anna Rita Vestri, Sara Viviani "A study on serum calcium and phosphate in dialysis patients via a mixed effects latent Markov model with two outcomes", *Biomedical Statistics and Clinical Epidemiology*, 2009, **3**, 85-92.

Sara Viviani, **Alessio Farcomeni**, Gian Luca Di Tanna, Anna Rita Vestri "Validation of two disease-specific quality of life questionnaires comparing a partial credit model and a latent class model", 2009, *Biomedical Statistics and Clinical Epidemiology*, **3**, 79-84.

2008 and before

Farcomeni, A. "A Review of Modern Multiple Hypothesis Testing, with particular attention to the false discovery proportion", 2008. *Statistical Methods in Medical Research*, **17**, 347-388

Farcomeni, A. "Parametric assumptions in single and multiple inference: when should we rely on them?", 2008, *Biomedical Statistics and Clinical Epidemiology*, **2**(1): 57-69.

Farcomeni, A. "Some Results on the Control of the False Discovery Rate under Dependence", 2007. *Scandinavian Journal of Statistics*, **34**, 275-297

Alfo', M. and **Farcomeni, A.** and Tardella, L. "Robust identification of differentially expressed genes through semiparametric mixing", *Computational Statistics and Data Analysis*, 2007, **51**(11), 5253-5265

Farcomeni, A. "Some Properties of Negatively Dependent Random Variables", 2007. *Theory of probability and mathematical statistics*, **77**, 145-153

Farcomeni, A. "More Powerful Control of the False Discovery Rate Under Dependence", 2006. *Statistical Methods & Applications*, **15**, 43-73.

Farcomeni, A. "Unified Conditional Frequentist and Bayesian Testing: Computations in Practice and Sample Size Determination", 2003, *Metron – International Journal of Statistics*, vol. LXI, pp.243-266

Publications in International Journals in other fields (years 2000- 2024)

2024

The FALD-V: a predictive formula for preoperative volume assessment of adipose tissue transplantation in FALD flap, *Journal of Plastic, Reconstructive & Aesthetic Surgery*, **90**, 25-24

Efficacy and Safety of Combination Therapy with Low-Dose Rivaroxaban in Patients with Cardiovascular Disease: A Systematic Review and Meta-Analysis of Randomized Controlled Trials, *Journal of Clinical Medicine*, **13**, 2033

2023

Institutions and Economic Development: New Measurements and Evidence, *Empirical Economics*, to appear

Mortality attributable to bloodstream infections caused by different carbapenem- resistant Gram negative bacilli: results from a nationwide study in Italy (ALARICO Network), *Clinical Infectious Diseases*, **76**, 2059-2069

Role of Functional Neuroimaging with 123I-MIBG and 123I-FP-CIT in De Novo Parkinson's Disease: A Multicenter Study, *Life*, **13**, 1786

Evaluation of bone scan index as a prognostic tool in breast cancer patients with bone metastasis, Current Radiopharmaceuticals, to appear

Venous thromboembolism in atrial fibrillation patients. A systematic review and metanalysis of 4,170,027 patients, JACC Advances, 100555

Sex differences in 123I-Mibg scintigraphy imaging techniques in patients with heart failure, Expert Review of Medical Devices, to appear

Evaluation of partial pressure CO2 change in the dialyzer blood inlet during hemodialysis as a measure of vascular access recirculation, Hemodialysis International, 27, 370-377

The DASciS software for BSI calculation as a valuable prognostic tool in mCRPC treated with 223RaCl2: a multicenter Italian study, Biomedicines, 11, 1103

The ergonomic FALD flap for one-stage total breast reconstruction, Plastic and Reconstructive Surgery -Global Open, to appear

Role of PET gamma detection in radioguided surgery: a systematic review, Clinical and Translational Imaging, to appear

Parathyroidectomy and survival in a cohort of Italian dialysis patients: results of a multi-center, observational, prospective study, Journal of Nephrology, to appear

Predictive performance of multi-model ensemble forecasts of COVID-19 across European nations, eLife, 12, e81916

Effect of Digoxin on all-cause and cardiovascular mortality in

patients with atrial fibrillation with and without heart failure: An umbrella review of systematic reviews and 12 meta-analyses, European Journal of Clinical Pharmacology, 79, 473-483

Qualitative and Semiquantitative parameters of 18F-FDG-PET/CT as predictors of malignancy in patients with solitary pulmonary nodule, Cancers, 15, 1000

Association between cognitive impairment and malnutrition in hemodialysis patients: Two sides of the same coin, Nutrients, 15, 813

Oxygen extraction and mortality in patients undergoing chronic haemodialysis treatment: a multicentre study, Journal of Clinical Medicine, 12, 138

Bleeding and thrombotic events in atrial fibrillation patients with cancer: a systematic review and meta-analysis, Internal and Emergency Medicine, 18, 655-665

Perioperative risk factors associated with increased incidence of postoperative delirium: Systematic review, meta-analysis and GRADE system report of clinical literature, British Journal of Anaesthesia, 130, e254-e262

2022

Two years of COVID-19 pandemic: the Italian experience of Statgroup-19, Environmetrics, 33, e2768

Influence of corneal spherical aberration, anterior chamber depth, and ocular axial length on the visual outcome with an extended depth of focus wavefront-designed intraocular lens, Archives of Case Reports, 6, 17-21

Epidemiology of Subclinical Atrial Fibrillation in Patients with cardiac implantable electronic devices: A Systematic Review and

Meta-Regression, European Journal of Internal Medicine, 103, 84-94

Clinical phenotypes of atrial fibrillation and mortality risk. A cluster analysis from the nationwide Italian START registry, Journal of Personalized Medicine, 12, 785

Statin liver safety in non-alcoholic fatty liver disease. A systematic review and metanalysis, British Journal of Clinical Pharmacology, 88, 441-451

Decreased severity of the Omicron variant of concern: further evidence from Italy, International Journal of Infectious Diseases, 119, 21-23

Radium-223 in mCPRC patients: a large real-life Italian multicenter study, Minerva Urology and Nephrology, 74, 1-28

Cefiderocol- compared to colistin-based regimens for the treatment of severe infections caused by carbapenem-resistant Acinetobacter baumannii, Antimicrobial Agents and Chemotherapy, 66, e0214221 (2023 top cited paper for the journal)

Estimating COVID-19 induced excess mortality in Lombardy, Italy, Aging Clinical and Experimental Research, 34, 475-479

On the severity of COVID-19 infections in 2021 in Italy, Journal of Medical Virology, 94, 1281-1283

Ecological characterization of Syzygium (Myrtaceae) in Papua New Guinea, Case Studies in the Environment, 6, 1546552

Unreliable predictions about COVID-19 infections and hospitalizations make people worry: the case of Italy, Journal of

Medical Virology, 94, 26-28

The prognostic value of 123I-mIBG SPCT cardiac imaging in heart failure patients: a systematic review, Journal of Nuclear Cardiology, 29, 1799-1809

2021

JAK Inhibition Reduces SARS-CoV-2 liver Infectivity and Modulates Inflammatory Responses to Reduce Morbidity and Mortality, Science Advances, 7, 1, eabe4724

Mosaic human preimplantation embryos and their developmental potential in a prospective, non-selection clinical trial, American Journal of Human Genetics, 108, 2238-2247

D-Dimer for risk stratification and antithrombotic treatment management in acute coronary syndrome: a systematic review and exploratory meta-analysis, Thrombosis Journal, 19, 102

A Systematic Review and a Meta-Analysis Comparing Prophylactic and Therapeutic Low Molecular Weight Heparins for Mortality Reduction in 32,688 COVID-19 Patients, Frontiers in Pharmacology, 12, 698008

Statin use and mortality in atrial fibrillation: a systematic review and meta-analysis of 100,287 patients, Pharmacological Research, 165, 105418

Real-world safety and efficacy of direct oral anticoagulants in atrial fibrillation: A network metanalysis of 605,771 patients, European Heart Journal - Cardiovascular Pharmacotherapy, 7, f11-f19

IL-6 levels influence the 3-month all-cause mortality in hospitalized frail older patients, Aging and disease, 12, 353-359

Diagnostic value of the early Heart-to-Mediastinum count ratio in Cardiac 123I-mIBG imaging for Parkinsons disease, Current Radiopharmaceuticals, 14, 64-69

A National multicenter study on Overall survival in elderly metastatic castrate-resistant prostate cancer patients treated with Radium-223, Aging Clinical and Experimental Research, 33, 651-658

Relapsed/refractory diffuse large B-cell lymphoma patients. A multicenter retrospective analysis of eligibility criteria for CAR-T cell therapy, Leukemia and Lymphoma, 62, 828-836

Efficacy of ceftazidime-avibactam plus aztreonam in patients with bloodstream infections caused by MBL-producing Enterobacterales, Clinical Infectious Diseases, 72, 1871-1878

2020

Role of low-molecular weight heparin in hospitalized patients with SARS-CoV-2 pneumonia: a prospective observational study, Open Forum Infectious Diseases, 7(12)

Features of severe COVID-19: a systematic review and meta-analysis, European Journal of Clinical Investigation, 50, e13378

Overall survival in mCPRC patients treated with Radium-223 in association with Bone Health Agents: A national multicenter study, International Journal of Radiation Biology, 96, 1608-1613

Monthly fluctuations in 25-hydroxy-vitamin D levels in day and rotating night shift hospital workers, Journal of Endocrinological Investigation, 43, 1655-1660

Primary Radical Prostatectomy or Ablative Radiotherapy as Protective Factors for Patients With mCRPC Treated With Radium-223 Dichloride: An Italian Multicenter Study, Clinical

Genitourinary Cancer, 18, 185-191

Time to appropriate antibiotic therapy is a predictor of outcome in patients with bloodstream infection caused by KPC-producing *Klebsiella pneumoniae*, Critical Care, 24, 29

Phytosociological overview of the *Fagus* and *Corylus* forests in Albania, Vegetation Classification and Survey, 1, 175-189

Environmental factors and human activity as drivers of tree cover and density on the Island of Socotra, Yemen, Rendiconti Lincei. Scienze Fisiche e Naturali, 31, 703-718

Serum albumin and risk of cardiovascular events in primary and secondary prevention: a systematic review of observational studies and Bayesian meta-regression analysis, Internal and Emergency Medicine, 15, 135-143

Statins and major adverse limb events in patients with peripheral artery disease. A systematic review and metanalysis, Thrombosis and Haemostasis, 120, 866-875

Septum-Based Mammoplasties: Surgical Techniques and Evaluation of Nipple-Areola Sensibility, Aesthetic Plastic Surgery, 44, 689-697

Baseline Quality of Life predicts Overall Survival in patients with mCRPC treated with ²²³Ra-dichloride, Hellenic Journal of Nuclear Medicine, 23, 12-20

Usefulness of 5 minutes ¹²³I-mIBG scan in Parkinson's Disease and Heart Failure, Current Radiopharmaceuticals, 13, 120-129

Atrial high-rate episodes and risk of major adverse cardiovascular events in patients with cardiac implantable electronic devices, Clinical Research in Cardiology, 109, 96-102

Prevalence and impact of Nonalcoholic Fatty Liver Disease in Atrial Fibrillation, Mayo Clinic Proceedings, 95, 513-520

Association between clinical risk scores and mortality in atrial fibrillation: Systematic review and network meta-regression of 669,000 patients, European Journal of Preventive Cardiology, 27, 633-644

2019

Hepatitis C virus eradication with directly acting antivirals improves health-related quality of life and psychological symptoms, World Journal of Gastroenterology, 25, 6928-6938

Highly predictive genetic markers distinguish drug-type from fiber-type Cannabis sativa L., Plants, 8, 496 (with patent)

The additive value of sarcopenia, myosteatosis and hepatic encephalopathy in the predictivity of model for end-stage liver disease, Digestive and Liver Disease, 51, 1508-1521

Muscle alterations are associated with minimal and overt hepatic encephalopathy in patients with liver cirrhosis, Hepatology, 70, 1704-1713

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Books (years 2000- 2015)

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

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

Editorial activity

2024- current

Co-Editor-In-Chief for "Statistics and Probability Letters"

2021-2023

Co-Editor for "Statistical Methods & Applications"

2013 – 2021

Associate editor for "Statistical Methods & Applications"

2007 – 2012

Executive Editor for "Biomedical Statistics and Clinical Epidemiology"

2005 – 2007

Assistant Editor of "Metron – International Journal of Statistics"

Other scientific activities

2011- NOW

Expert evaluator of "Ideas" research program funded by the Romanian Government through the National Council for Scientific Research .

Invited talks in international conferences

- Speaker or invited speaker for over several presentations (including plenary) in national and international workshops and conferences; and seminars in Italy, U.K., Spain, U.S.A., and Germany.

Honours

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.

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