

CONTATTI	Dipartimento di Scienze Politiche Università di Roma Tre Via G. Chiabrera 199 - 00145 Roma telefono (ufficio): +39-0657335321 email: (istituzionale) francesco.lagona@uniroma3.it pec: francesco.lagona@pec.it
DATI PERSONALI	Nato: 5 Aprile 1968 a Roma Residenza: Roma Nazionalità: italiana
POSIZIONE CORRENTE	Professore associato di Statistica
SOMMARIO	Professore associato di Statistica dal 2006 presso Roma Tre, dove insegna Statistica e Modelli Statistici, è Adjunct Faculty presso il Dept. of Mathematics di Bergen (NO), Associate Editor per il Journal of Statistical Computation and Simulation (rivista in fascia A), Statistical Advisor per la rivista PLOS ONE, vice-coordinatore del gruppo di ricerca permanente SIS GRASPA e svolge attività di referaggio per numerose riviste internazionali (si veda il profilo publons per dettagli). Ha pubblicato 37 articoli su rivista (di cui 23 in fascia A) e 24 contributi in volume. I suoi interessi riguardano l'analisi delle serie spaziali e temporali, l'analisi della sopravvivenza, l'analisi dei dati direzionali, l'analisi di dati longitudinali, con applicazioni all'economia, alla demografia, agli studi ambientali e alla biologia. Ha recentemente pubblicato un articolo su <i>Science</i> che ha ricevuto la copertura dei principali media nazionali e internazionali (si veda rassegna stampa curata dall'Ateneo Roma Tre). Attualmente si occupa di modelli VAR non lineari per l'analisi economica, di regressione quantile per l'analisi demografica e di modelli a classi latenti per l'analisi ambientale. La sua ricerca è attualmente finanziata dal progetto Progetto PRIN 2015 'EPHASTAT: Environmental processes and human activities: capturing their interactions via statistical methods' e dal progetto Horizon 2020 Megaroller . Ha un h index pari a 14 e 590 citazioni (Google scholar, accesso il 22/12/2019).
CARRIERA ACCADEMICA	1996 - 1997: Research Associate, Maxwell School of Citizenship and Public Affairs, Syracuse University, Syracuse NY, USA 1997 - 2006: Ricercatore di Statistica, Dip.to di Istituzioni Politiche e Scienze Sociali, Università di Roma Tre 2006 - oggi: Professore Associato di Statistica, Dip.to di Istituzioni Politiche e Scienze Sociali, Università di Roma Tre
TITOLI DI STUDIO	1996: Dottorato di ricerca in statistica metodologica, Dip.to di Statistica, Università Sapienza di Roma 1992: Laurea in Scienze Statistiche ed Economiche, Dip.to di Statistica, Università Sapienza di Roma
(A) ATTIVITÀ DIDATTICA	Maxwell School of Citizenship and Public Affairs, Syracuse University, Syracuse NY, USA: Introductory Statistics (40 ore, 1996); Spatial Statistics (40 ore, 1996) Dipartimento di Statistica, Università di Messina, Master GEAT: Statistical Modelling (20 ore, 2001); Spatial Statistics (20 ore, 2002)

Max Planck Institute for Demographic Research, Rostock Germany: Survival Analysis (40 ore, 3 edizioni, 2004-2006); Spatial Demography (40 ore, 3 edizioni, 2007-2010)

Social Science Data and Research Center, Fudan University, Shanghai, China: Spatial Statistics (20 ore, 2014)

Dipartimento di Scienze Politiche, Università Roma Tre, Statistica (64 ore, dal 2008 a oggi); Modelli statistici (64 ore, dal 2011 a oggi); Econometria (64 ore, 2011); Indagini Campionarie (64 ore, 2010)

Dipartimento di Economia, Università Roma Tre: cicli seminari per il dottorato di ricerca su Mixture Models e Statistical Modelling with Missing Values (anni 2008-2011)

Dipartimento di Ingegneria, Università Roma Tre, Master IEAT, Introductory Statistics (20 ore, 4 edizioni, 2004-2008); Environmental Statistics (20 ore, 4 edizioni, 2004-2008)

School of Economics and Business Administration, Chongqing University, Chongqing China, Doctorate of Business Administration; Quantitative data collection (18 ore, 3 edizioni, 2015-2017)

(B) SERVIZI
PRESTATI

2016 - 2019 Responsabile Gruppo di Riesame Dip.to di Scienze Politiche Università Roma Tre

2016 - oggi Delegato del direttore per le attività seminari e di attività didattica integrativa del Dipartimento di Scienze Politiche Università di Roma Tre

2018 - oggi Responsabile e-learning per il Dipartimento di Scienze Politiche, Università Roma Tre

(C) ATTIVITÀ DI
RICERCA
ALL'ESTERO
(PERIODI
SUPERIORI AD UN
ANNO)

2003-2006 Research Scientist, Max Planck Institute for Demographic Research, Rostock DE (progetti di analisi della sopravvivenza, analisi statistica delle immagini)

2019-2020 Adjunct Faculty, Department of Mathematics University of Bergen (NO) (progetti di analisi delle serie storiche - MEGAROLLER project <https://www.sintef.no/MegaRoller>)

(D) FRUIZIONE DI
ASSEGNI DI
RICERCA

1996 - 1997: Research Associate of Statistics, Maxwell School of Citizenship and Public Affairs, Syracuse University, Syracuse NY, USA (progetti di statistica spaziale)

(E) DIREZIONE E
COORDINAMENTO
DI GRUPPI DI
RICERCA

2007-2009 Responsabile unità locale progetto PRIN 2006 'Modelli gerarchici per l'analisi delle interazioni spaziali e spatio-temporali in serie di dati ambientali'

2019-2021 Vice-coordinator GRASPA (Gruppo SIS di Ricerca per le Applicazioni della Statistica ai Problemi Ambientali <https://graspa.org/> <https://www.sis-statistica.it/ita/2609/Gruppi%20della%20SIS>)

(F)
COORDINAMENTO
DI INIZIATIVE IN
CAMPO
SCIENTIFICO

2019 - oggi Associate Editor: Journal of Statistical Computation and Simulation (rivista in fascia A)

2017 - oggi Membro Statistical Advisory board: PLOS ONE
(<https://journals.plos.org/plosone/>)

2012 Membro Comitato Organizzatore Riunione Scientifica SIS Roma 2012

2013 Membro Comitato Scientifico Riunione Scientifica SIS Brescia 2013

2017 Membro Comitato Scientifico Meeting of the International Environmetrics Society Bergamo 2017

2017 Membro Comitato Scientifico ADISTA (Advances in Directional Statistics <https://sites.google.com/site/adista17workshop/>) Roma 2017

2019 Membro Comitato Scientifico ADISTA (Advances in Directional Statistics <http://eio.usc.es/pub/adista20/index.php>) Santiago de Compostela (ES) 2020

2019 Membro Comitato Organizzatore Giornate di Studio della Popolazione, Roma 2021

ARTICOLI
SOTTOPOSTI

Lagona F and Padovano F (2019) How does legislative behavior changes when the country becomes democratic? The case fo South Korea

Barbi E, Lagona F and Petrella L (2019) On the frontier of human longevity. A quantile regression model for studying extreme-age survival

37 ARTICOLI IN
RIVISTA (IN
GRASSETTO LE 23
PUBBLICAZIONI IN
FASCIA A)

Lagona F, Ranalli M and Barbi E (2020) A model with space-varying regression coefficients for clustering multivariate spatial count data, Biometrical Journal, to appear

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Barbi E, Lagona F, Marsili M, Vaupel J and Wachter K (2018) Response to Comment on “The plateau of human mortality: Demography of longevity pioneers”. Science, vol. 362

Auteri M, Lagona F e Padovano F (2018) Il ciclo politico-legislativo italiano dal 1948 ad oggi, Studi parlamentari e di politica costituzionale, 199-200: 57-70

Barbi E, Lagona F, Marsili M, Vaupel J and Wachter K (2018) The Plateau of Human Mortality: Demography of Longevity Pioneers, Science, 1459-1461

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Lagona F and Picone M (2016) Model-based segmentation of spatial cylindrical data, *Journal of Statistical Computation and Simulation*, 86: 2598-2610

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Lagona F, Picone M and Maruotti A (2015) A Hidden Markov model for the analysis of cylindrical time series, *Environmetrics*, 26: 534-544

Lagona F, Maruotti A and Padovano F (2015) Multilevel multivariate modelling of legislative count data, with hidden Markov chain, *Journal of the Royal Statistical Society A*, 178(3): 705-723

Lagona F, Picone M, Maruotti A and Cosoli S (2015) A hidden Markov approach to the analysis of space-time environmental data with linear and circular components. *Stochastic Environmental Research and Risk Assessment*, 29: 397-409

Bulla J, Lagona F, Maruotti A and Picone M (2015) Environmental conditions in semi-enclosed basins: A dynamic latent class approach for mixed-type multivariate variables. *Journal de la Societè Francaise de Statistique*, 156: 114-136

Lagona F, Jdanov D and Shkolnikova M (2014) Latent time-varying factor in longitudinal analysis: a linear mixed hidden Markov model for heart rates. *Statistics in Medicine*, 33: 4116-4134

Lagona F and Picone M (2013) Maximum likelihood estimation of bivariate circular hidden Markov models from incomplete data. *Journal of Statistical Computation and Simulation*, 83:7, 1223-1237

Bulla J, Lagona F, Maruotti A and Picone M (2012) A multivariate hidden Markov model for the identification of sea regimes from incomplete skewed and circular time series. *Journal of Agricultural, Biological and Environmental Statistics* 17(4): 544-567

Lagona F and Picone M (2012) Model-based clustering of multivariate skew data with circular components and missing values. *Journal of Applied Statistics* 39(5): 927-945.

Basili A, Lagona F, Roberti di Sarsina P, Basili C, Paterna TV (2011). Allopathic versus Homeopathic Strategies and the Recurrence of Prescriptions: Results from a Pharmacoeconomic Study in Italy. *Evidence-Based Complementary and Alternative Medicine*, Article ID 969343, 6 pages

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Lagona F, Padovano F (2007) A Nonlinear Principal Component Analysis of the Relationship between Budget Rules and Fiscal Performance in the European Union. *Public Choice*, 130: 401-436

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on Modeling and Estimation. Discussion Paper Series 108, Dept. of Geography, Syracuse University ISSN: 0363-6038, 1-43

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Lagona F (2016) A hidden Markov approach to the analysis of incomplete multivariate longitudinal data. In: F. Mola and C. Conversano (Eds.) *CLADAG 2015 10th Scientific Meeting of the Classification and Data Analysis Group of the Italian Statistical Society*, CUEC, 243-248 ISBN 9788884679499

Bencivenga M, Lagona F, Maruotti A, Nardone G and Picone M (2014) Unsupervised classification of multivariate time series data for the identification of sea regimes. In: A. Giommi and G. Alleva (Eds) *Studies of Theoretical and Applied Statistics*, Springer, 61-71 ISBN 978-3-319-27272-6

Lagona F (2014). Regression analysis of correlated circular data based on the multivariate von Mises distribution. In Cabras S, Di Battista T, Racugno W (a cura di), *47th SIS Scientific Meeting of the Italian Statistica Society*. CAGLIARI : CUEC - Cooperativa Universitaria Editrice Cagliaritana. ISBN 978-88-8467-874-4

Lagona F and Picone M (2013) A Gaussian – Von Mises Hidden Markov model for clustering multivariate linear-circular data. In: P. Giudici, S. Ingrassia and M. Vichi (Eds.) *Statistical Models for Data Analysis*, Springer, 171-179 ISBN 978-3-319-00031-2

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Lagona F and Picone M (2013) Classification of multivariate linear-circular data with nonignorable missing values, In: M. Grigoletto, F. Lisi and S. Petrone (Eds.) *Complex Models and Computational Methods in Statistics*, Springer, 161-173 ISBN 978-88-470-2870-8

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Lagona F, Maruotti A and Picone M (2011) A Non-Homogeneous Hidden Markov Model for the Analysis of Multi-Pollutant Exceedances Data, In: P Dymarski (Ed.) *Hidden Markov Models: Theory and Applications*, Intech, 207-222, ISBN 978-953-307-208-1

Lagona F and Picone M (2011) Unsupervised classification of multivariate data with circular components and missing values. In *Proceedings of SCO 2011*, 1-6, ISBN 978-88-6129-753-1

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Picone M, Lagona F and Nardone G (2009). Missing value imputation in buoy networks for validation purposes. In: European Commission Joint Research Centre, *Proceedings, 33rd International Symposium on Remote Sensing of Environment: sustaining the millenium development goals*. TCSO : ISRSE. ISBN 9780932913135

Streso K and Lagona F (2006) Hidden Markov Random Field and Frame Modelling for TCA Image Analysis. In: M.H. Hamza (Ed.) *Proceedings of the Third IASTED International Conference on Signal Processing, Pattern Recognition, and Applications*, ACTA Press, 310-315 ISBN 0-88986-580-9

Lagona F (2005) Air Quality Indices via Non Homogeneous Hidden Markov Models. In: *Atti del Convegno Intermedio della Società Italiana di Statistica*. Messina. June 2005, CLEUP, 91-94 ISBN 88-7178-531-2

Lagona F (2004) Local Likelihood Methods to Smooth Hazard Rates from Grouped Data. In: *Atti della XLII Riunione Scientifica della Società Italiana di Statistica*. Bari. June 2004, CLEUP, 361-364, ISBN 88-7178-034-5

Barbi E and Lagona F (2002) Modelling Human Mortality Trajectories via an Accelerated-Ageing Hazard Function. In: Atti della XLI Riunione Scientifica della Societa' Italiana di Statistica, Milano-Bicocca, June 2002, CLEUP, 313-316 ISBN 88-7178-589-4

Lagona F and Padovano F (1999). Budget Rules and Fiscal Performance in the European Union: A Nonmetric Principal Component Analysis. In Istituzioni Politiche e Finanza Pubblica, MILANO : FrancoAngeli, 147-176, ISBN 9788846423887

Lagona F (1996) Linear Structural Dependence of Degree One among Data: a Statistical Model. In: Camiz S and Stefani S (Eds) Matrices and Graphs: Theory and Applications, World Publishing, 223-232, ISBN 978-9810230388