

Europass Curriculum Vitae

Personal information

Surname / First name

Address

Telephone

Email

Nationality

Place and date of birth

Present appointments

Date

Occupation or position held

Name of employer

Previous appointments

Date

Occupation or position held

Name of employer

Date

Occupation or position held

Name of employer

Date

Occupation or position held

Name of employer

Education and training

Dates

Title of qualification awarded

Name and type of organization
providing education and training

Subject of the thesis

Dates

Title of qualification awarded

Name and type of organization
providing education and training

Subject of the thesis

Academic visits

Dreassi Emanuela

Dipartimento di Statistica, Informatica, Applicazioni "G. Parenti" (DiSIA), Università degli Studi di Firenze, Viale Morgagni, 59 - I 50134, Florence, Italy

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emanuela.dreassi@unifi.it

Italian

2021 – current

Full Professor of Statistics (STAT/01-A)

University of Florence

2011 – 2021

Associate Professor of Statistics (STAT/01-A) – qualified in 2014

University of Florence

2005 – 2011

Assistant Professor of Statistics (STAT/01-A) – Permanent Position – qualified in 2008

University of Florence

1999 – 2004

Post-Doc Fellow

University of Florence

February 1999

PhD in Applied Statistics (XI Dottorato di Ricerca)

University of Florence

PhD Thesis on Edge effect correction methods in Disease Mapping; Title "Metodi di rappresentazione cartografica in epidemiologia geografica: l'effetto confine"; Supervisor: Prof. Annibale Biggeri.

January 1995

University degree in Statistical and Economical Sciences, summa cum laude (110/110 e Lode).

University of Siena

Thesis on Heavy tailed density distributions to represent income distribution; Title "Distribuzioni a code pesanti: genesi, momenti e stima dei parametri"; Supervisor: Prof. Lorenzo Fattorini.

1998 – Dept. of Mathematics, Queensland University, Brisbane, Australia, Prof. Jeffrey McLachlan

Institutional responsibilities

Date	1999 – Freie Universität Berlin, Germany, Prof. Danmark Böhning – Vigoni Program (CRUI) 1998/99
Role and Institution	2024 – 2028 Head, Dept. Statistics, Computer Science, Applications, (Direttore del Dipartimento di Statistica, Informatica, Applicazione – DiSIA), University of Florence
Date	2014 – 2022
Role and Institution	Director, Bachelor Program in <i>Statistics</i> (Presidente del Corso di Laurea in Statistica L-41), University of Florence
Date	2019 – 2022
Role and Institution	Deputy-Director, School of Economics and Management (Vice Presidente della Scuola di Economia e Management), University of Florence
Date	2017 – current
Role and Institution	Member and from 2018 President, of the Teaching Organization Steering Committee – DiSIA (coordinatore della Commissione temporanea didattica del DiSIA), University of Florence

Others

Date	2019 – 2022
Role and Institution	Responsible of Learning Agreement – ERASMUS+ International student mobility (responsabile mobilità internazionale) for the Bachelor Program in <i>Statistics</i> , University of Florence
Date	2006 – 2022
Role and Institution	Member of the Study Plan Committee (commissione Piani di Studio) for the Bachelor Programs in <i>Statistics</i> , University of Florence
Date	2008 – 2024
Role and Institution	Quality Assurance System (Responsabile Processo Assicurazione Qualità) for the Bachelor Program in <i>Statistics</i> , University of Florence
Date	2017 – 2019
Role and Institution	Quality Assurance System, Master Program in <i>Statistics, Actuarial and Financial Sciences</i> , University of Florence
Date	2019 – 2022
Role and Institution	Stage Committee (Commissione Tirocini) for the Bachelor Program in <i>Statistics</i> , University of Florence
Date	2012 – 2019
Role and Institution	Joint Teachers-students Committee (Commissione Paritetica Docenti Studenti) for the Bachelor Program in <i>Statistics</i> , University of Florence

Teaching activity

Courses for PhD students

Date	from 2014 to 2017
Course	Statistical Inference, <i>Phd program in Mathematics, Computer Science and Statistics (Statistics Curriculum)</i>
Institution	University of Florence
Date	2007
Course	Statistical models for spatial data, <i>PhD program in Applied Statistics</i>
Institution	University of Florence

Date	2006
Course	MCMC methods for Bayesian Inference, <i>PhD program in Applied Statistics</i>
Institution	University of Florence
Courses for graduate and undergraduate students	
Date	from 2002/03 to 2023/24
Course	<i>Spatial Statistics</i>
Institution	University of Florence
Date	from 2005/06 to 2008/09
Course	<i>Variance and Covariance Analysis</i>
Institution	University of Florence
Date	from 2005/06 to 2008/09
Course	<i>Categorical Data Analysis</i>
Institution	University of Florence
Date	from 2008/09 to <i>present</i>
Course	<i>Statistics for Experimental Research</i>
Institution	University of Florence
Date	2008/09, from 2010/11 to 2014/15, from 2016/17 to <i>present</i>
Course	<i>Statistics</i>
Institution	University of Florence
Date	1999/00
Course	<i>Management Statistics</i>
Institution	University of Sassari
Date	2001/02, 2002/03, 2006/07
Course	<i>Social Statistics</i>
Institution	University of Florence
Date	2011/12
Course	<i>Statistical Models</i>
Institution	University of Florence
Date	from 2004/05 to 2007/08
Course	<i>Workshop of Applied Statistics II</i>
Institution	University of Florence
Date	2000/01
Course	<i>Statistical methods for design and evaluation of services</i>
Institution	University of Florence
Date	2002/03
Course	<i>Health Statistics</i>
Institution	University of Florence and Regione Toscana – CAMPUS project
Others	
Date	2001
Courses	<i>Popolazione e Territorio in Eventi morbosi e fattori di rischio</i> and <i>Statistical Mapping in Modelli e Metodologie Statistiche per l'Ambiente</i>
Institution	School of the SIS

Date	2005, 2014
Course	<i>Spatial Statistics</i>
Institution	Master in Biostatistics – II level – University of Bologna
Date	1999/00, 2001/02
Course	<i>Statistics</i>
Institution	Master in Epidemiologia – ISI Foundation – Turin
Supervision of theses	
Date	2005 – current
Activity	- Tutor of 1 PhD thesis (XXV Dottorato di Ricerca) and Co-Tutor of 1 PhD thesis (XXI Dottorato di Ricerca) in <i>Applied Statistics</i>, University of Florence; - Tutor of 11 master theses, Master Program in <i>Statistics, Actuarial and Financial Sciences</i>, University of Florence; - Tutor of about 70 bachelor theses, Bachelor Program in <i>Statistics</i>, University of Florence.
Meetings	
Organizer	2015 GEOMED 2015, Firenze September 10-12, 2015.
Scientific Committee component	- GEOMED 2015, Firenze, September 10-12, 2015; - Health GIS 2015, Seattle USA November, 3, 2015; - GEOMED 2017, Porto (PT), September, 2017; - GRASPA/TIES 2019, Pescara (Italy), July, 2019.
Local Committee component	- SIS 2017, Firenze June 28-30, 2017
Organizer of sessions	- Session G9 Epidemiology, TIES 2009, Bologna, July 2009; - Session G1 Biostatistics, S.Co 2009, Milano, September 2009; - Session Geomed 2015, Florence, September 2015.
	In addition, I usually take part in national and international conferences, by presenting my research papers and by acting as a discussant and/or as a chair.
Invited talks	- Modelli gravitazionali per la valutazione dei servizi sanitari. Un esempio relativo alla mortalità per linfoma di Hodgkin nella Regione Toscana 1971-94. Società Italiana di Statistica (SIS) Processi e metodi statistici di valutazione, Rome 4-6 June 2001 (with Biggeri A); - Space-time models with time-dependent covariates. Società Italiana di Statistica (SIS) - Statistica e ambiente, Messina 21-23 September 2005 (with Biggeri A, Lagazio C and Catelan D); - A shared components model to detect uncommon risk factors in disease mapping. Joint Meeting GfKI - Cladag 2010, Florence 8-10 September 2010; - Poisson M-Quantile Geographically Weighted Regression on Disease Mapping. Spatial 2, Foggia 1-2 September 2011 (with Chambers R and Salvati N); - Poisson M-Quantile models on Disease Mapping. Cladag 2011, Pavia 7-9 September 2011 (with Chambers R and Salvati N); - Disease Mapping via negative Binomial M-quantile regression, Geomed 2013, Sheffield (UK) 16-18 September 2013 (with Chambers R and Salvati N); - Space-time shared models: the lung cancer Tuscany (Italy) 1971-2010 example and some compatibility issues on model specification, Geomed 2015, Florence 10-12 Florence 2015; - Spatio-temporal models for demographic applications, StaTalks: New challenges in demographic research, Florence February 2017.

Research interests

So far, the main part of my research concerned hierarchical Bayesian models and spatial statistics, with special reference to disease mapping. The methodological advances are connected to the specification and estimation of models in complex frameworks such as: multilevel data, missing data, latent variable models, informative sampling designs. Furthermore, in last years, I also worked on small area estimation, compatibility of conditional distributions and Bayesian predictive inference.

As to the first topics (hierarchical Bayesian models and spatial statistics), methodological work is joined with applications to real data. In a sense, the main problem I faced is how to adapt and develop some existing statistical model in order to solve a specific real problem. The applications usually concern epidemiological studies (e.g., risk of mortality in a particular region) but I also worked with socio-economic data (e.g., relationship between health and socio-economic status or health system evaluation).

As to my recent work, robust methods for small area estimation and compatibility of conditional distributions are problems which occur very often in spatial statistics and/or in a missing data framework. Therefore, to me, it was quite natural to investigate such problems from a more theoretical perspective. Similarly, since prediction is one of the main targets of my previous research, it has been natural to focus on Bayesian predictive inference.

Finally, I briefly mention a further research line, certainly minor but potentially fruitful (and intriguing to me). Indeed, in time, I often cooperated with people coming from non-statistical research areas. Among other applications, I worked on plastic surgery and ophthalmology.

I next describe some of my research topics more specifically.

The mapping of disease incidence within a given area has long been a significant part of public health and epidemiology. Statistical methods also plays a big role. In fact, to obtain reliable estimates of local disease risk based on counts of observed cases within small regions, and/or to couple such estimates with potentially relevant background information (such as covariates and the number of individuals at risk), is obviously crucial in the disease mapping framework. Estimates are usually obtained through generalized linear mixed models with spatially structured random effects. Or else, other popular methods are based on mixture models. In these two frameworks, I tried to specify some models able to capture the main features of the data.

- *Hierarchical Bayesian spatial models with missing data imputation algorithms.* In disease mapping, information from the neighboring areas is used to improve the estimates for a given area. However, such information is incomplete for those areas at the region boundary, and ignoring this fact could lead to a distortion of the estimates (edge-effect). A general approach to compensate for edge effects under a hierarchical Bayesian model is presented: the out-of-the-border areas are regarded as having missing values. Two algorithms for the imputation of missing data and estimation of relative risks are applied: doubly stochastic EM and Chained Data Augmentation.

- *Space-time hierarchical Bayesian models with time-dependent covariates.* Joint modelling of space-time variation of the disease risk is an important topic. Most of the proposals in this field deal with at most two-time scales (age-period or age-cohort). I propose a hierarchical Bayesian model that can be used as a general framework to jointly study the evolution in time and the spatial pattern of the disease risk. The rates are modelled as a function of purely spatial terms (local effects of risk factors that do not vary in time), time effects (on the three-time axes: age, calendar period and birth cohort) and space-time interactions that describe area-specific time patterns. Furthermore, space-time hierarchical Bayesian models with time-dependent covariates are adopted in order to identify the proper lag time on which diseases are affected by risk-factors.

- *Hierarchical Bayesian spatial gravity models.* The space-time variation of disease risk, taking the closeness and availability of care units into account, is analyzed by a hierarchical Bayesian model in a gravitational formulation. In this way, the pattern of mortality and the attraction exercised by each care units can be evaluated.

- *Geostatistical models.* Model-based geostatistics and Bayesian approaches are useful in the context of veterinary epidemiology when point data come from an appropriate study design. Some Bayesian Gaussian spatial exponential models are specified. In addition, a Bayesian kriging is performed to predict the continuous risk surface of parasite infection on the considered region.

- *Hierarchical Bayesian spatial models with shared and specific random effects.* A statistical model for jointly analysing the spatial variation of incidences of more than two diseases, with common and uncommon risk factors, is introduced. Deaths for different diseases are described by a polytomous logit model. For each area and each confounding strata population (i.e. age-class, sex, race) the probabilities of death for every cause (the response probabilities) are estimated. The log odds are decomposed additively into various random effects, including: shared (common to diseases) terms, specific structured spatial variability terms, unstructured unshared spatial terms, and confounders terms (such as age, race and sex). Disease specific spatially structured effects are also estimated. The latter are considered as latent variables denoting disease-specific risk factors.

Small area estimation, mixture models and M-quantile regression

Small area estimation usually involves the estimation of parameters for small sub-populations, mainly when such sub-populations are included in a larger survey. The term “small area” typically refers to a small geographical area. Various methods adopted in this framework (e.g. random-effects models for aggregate data) are actually similar to those used for disease mapping.

- *Semicontinuous asymmetric models.* I deal with small area estimation in a situation where the target variable has an excess of zero values, a highly skewed distribution of the nonzero values and a spatial trend. A two-part random effects model is suggested. Such a model consists of a logistic random effects model for the probability of nonzero values, and a conditional gamma random effects model for the nonzero response. The model also includes a correlation structure on the area random effects that appears in the two parts. Moreover, to take the spatial structure of the data into account, a bivariate smooth function of the geographical coordinates of the units is included. A hierarchical Bayesian approach is adopted to fit the model. Subsequently, to deal with non negative variables with a point mass in zero (zero-inflated data), a semiparametric Bayesian two-part model is suggested. This model allows to obtain a semiparametric expression for the two parts of the model by using Dirichlet processes.

- *Transitional non-parametric maximum pseudo-likelihood models.* Non-parametric maximum likelihood estimators of relative risk have been proposed in the disease mapping framework. While such estimators are relatively simple, they do not take into account spatial autocorrelation and the EM algorithm could converge to local maxima. Some transitional generalized linear models (i.e. transitional non-parametric maximum pseudo-likelihood estimators) are introduced in the disease mapping framework. The usual kernel likelihood of the mixture models is replaced by the conditional density of the observed response given the observed values in the adjacent areas. Following this route, a spatial structure has been included into the model. The estimation of the parameters is based on the EM algorithm, appropriately modified to estimate the number of components of the mixture and to avoid local maxima.

- *Robust methods for small area estimation.* To obtain robust methods for small area estimation, a few semi-parametric M-quantile regression models are introduced (Poisson and Negative Binomial models). In case of the Negative Binomial models, a spatial structure is considered as well. Hence, the latter model can be also adopted for disease mapping. Furthermore, penalized splines can be included into the model to allow for non-linear effects of covariates.

Compatibility of conditional distributions

Let $X = (X_1, \dots, X_n)$ be an n -variate random variable. Sometimes, in order to assign the probability distribution of X , one selects the conditional distribution of X_i given $X_{-i} = (X_1, \dots, X_{i-1}, X_{i+1}, \dots, X_n)$ for all i , say

$$Q_i(\cdot) = P(X_i \in \cdot \mid X_{-i}) \quad \text{for every } i = 1, \dots, n.$$

Here, $Q_1, \dots, Q_n$ are chosen arbitrarily (the distribution of X is actually unknown). Hence, obviously, it may be that $Q_1, \dots, Q_n$ are not compatible, in the sense that no joint distribution for X admits $Q_1, \dots, Q_n$ as conditional distributions. On the contrary, $Q_1, \dots, Q_n$ are said to be *compatible* if there exists a joint distribution for X having $Q_1, \dots, Q_n$ as conditional distributions.

Compatibility problems actually arise in a plenty of frameworks, including spatial statistics, statistical mechanics, Gibbs sampling and missing data.

Personally, as I worked on spatial statistics for a long time, I met compatibility problems very often. Therefore, it has been natural to investigate this kind of problems from a more general (methodological) point of view.

In a Bayesian framework, to make predictions on a sequence $X_1, X_2, \dots$ of random observations, the inferrer needs to assign the predictive distributions

$$\sigma_n(\cdot) = P(X_{n+1} \in \cdot \mid X_1, \dots, X_n).$$

Roughly speaking, my approach is to assign σ_n directly, without passing through the usual prior/posterior scheme. One main advantage is that no prior probability is to be assessed. A related advantage is that, when a new observation X_{n+1} becomes available, σ_{n+1} can be obtained by a simple recursive update of σ_n . The data $X_1, X_2, \dots$ are assumed to be conditionally identically distributed.

To realize the programme sketched above, a class Σ of predictive distributions is introduced and investigated. Such a Σ is rich enough to model various real situations and $X_1, X_2, \dots$ is conditionally identically distributed if $\sigma_n \in \Sigma$ for each n . Various examples of $\sigma_n \in \Sigma$ are provided. Some of these examples are known and some are new. Among the former, we mention the predictive distributions of Dirichlet sequences, species sampling sequences and generalized Polya urns. Among the latter, we quote various (possibly meaningful) diffuse predictive distributions.

Finally, the asymptotics of X_n and σ_n (as $n \rightarrow \infty$) is investigated. Among other things, a stable CLT for X_n is proved. Moreover, under mild assumptions, the weak limit of σ_n is shown to be discrete.

Knockoffs

Recently, I am working on knockoff methodology that can be applied to perform variable selection with FDR control. The knockoffs are generated via conditional independence.

Funded research projects and ordered research

Project Coordinator

- Local unit (University of Florence) for PRIN 2006 “Modellazione e analisi statistica dell’impatto e del rischio per fenomeni ambientali con componenti spaziali e temporali”, national coordinator Prof. Alessandro Fassò;
- Third party HORIZON2020: ConcePTION (2019–2024): “Building an ecosystem for better monitoring and communicating safety of medicines use in pregnancy and breastfeeding: validated and regulatory endorsed work flows for fast, optimised evidence generation” (head Agenzia Regionale di Sanità Toscana and University Medical Center Utrecht NL).

Project participant

- PRIN 2004 “Trattamento statistico della complessità e dell’incertezza negli studi ambientali”, national leader Prof. Daniela Cocchi;
- PRIN 2003 “Il contributo della Statistica nello studio dei profili di espressione genica”, national leader Prof. Annibale Biggeri;
- PRIN 2002 “Statistica nel supporto alla decisione ambientale: identificazione, monitoraggio e valutazione di interventi”, national leader Prof. Daniela Cocchi;
- PRIN 2001 “Modelli statistici, micro dati e fonti amministrative: problemi metodologici ed applicazioni in ambito sanitario ed economico-sociale a fini decisionali”, national leader Prof. Enrico Gori;
- PRIN 2000 “Statistica nella valutazione del rischio ambientale”, national leader Prof. Gianfranco Lovison.
- PRIN 1999 “Valutazione della qualità, efficacia ed efficienza nei servizi alla persona con particolare riferimento all’istruzione e alla sanità”, national leader Prof. Enrico Gori;
- PRIN 1998 “Metodi Statistici per l’analisi dell’ambiente e delle interazioni ambiente-salute”, national leader Prof. Gianfranco Lovison.

Other projects	- Studio Longitudinale Toscano – Regione Toscana e Dipartimento di Statistica dell'Università di Firenze from 1999 to 2002; - European Network on the use of Multilevel Analysis in Public Health (ENUMAPH), University of Glasgow; - COPERNICUS research unit (centro di ricerca interdipartimentale - responsabile per il DiSIA).
Participant to Researches	Has been participant to researches order by: World Health Organization (WHO), Istituto Superiore di Sanità (ISS), Ministero dell'Ambiente, ARPAT, Regione Toscana, Istituto per lo Studio e la Prevenzione Oncologica (ISPRO); Agenzia Regionale di Sanità Toscana (ARS Toscana), Unità Sanitaria Territoriale di Mantova, Unità Sanitaria Territoriale di Verona, Camera di Commercio Industria Artigianato e Agricoltura Prato.
Collaborators	Has been alternate member for “Comitato Etico Azienda Ospedaliera e Universitaria di Careggi”.

Additional information

Refereeing activity

Date

Journals

1999 – present

Biometrics, Biometrical Journal, Journal of the Royal Statistical Society A, Journal of the Royal Statistical Society C, Statistics in Medicine, Statistical Methods in Medical Research, Journal of Statistical Planning and Inference, Journal of Multivariate Analysis, Computational Statistics & Data Analysis, Environmetrics, Statistical Modelling, Statistical Methods & Applications, Stochastic Environmental Research and Risk Assessment, Journal of Official Statistics, Dependence Modeling, International Journal of Health Geographic, Bulletin of the Malaysian Mathematical Sciences Society, Spatial and Spatio-Temporal Epidemiology, International Journal of Environmental Research and Public Health, Advances in Statistical Analysis, Spatial Economic Analysis, Investigative Ophthalmology and visual science, Bulletin of Economic Research, International Journal of Environment and Health, Pakistan Journal of Statistics, Tropical Medicine and Infectious Disease, Genus: Journal of Population Sciences, Remote Sensing, International Journal of Geo-Information, Spatial Demography and BMC Public Health.

Awards

Best 2016 paper for Statistics by “School of Engineering and Information Sciences - University of Wollongong”, for: Tzavidis N, Ranalli MG, Salvati N, Dreassi E, Chambers R (2015). Robust small area prediction for counts. *Statistical Methods in Medical Research*, **24**, (3), 373-395.

Member of the following scientific associations

from 1998 The International Biometric Society (IBS) and from 1999 the Società Italiana di Statistica (SIS).

Evaluating activity

- Expert for SIS (Società Italiana di Statistica) award for best PhD thesis in Applied Statistics 2017;
- Expert for Thesis assessment for Universitat de Valencia (2018): Programa de doctorado en Estadística y optimización;
- Expert for Thesis assessment for Université de Corse (2020): École Doctorale Environnement et société
- PhD enrollment evaluation (XXXV and XXXIX Dottorato di Ricerca in Matematica, Informatica e Statistica);
- PhD final evaluation Commission (XX Dottorato di Ricerca in Statistica Applicata).

Language competences

Mother tongue

Other language(s)

Italian

English, French, Spanish

*Self-assessment
European level^(*)*

English

French

Spanish

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user
B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user
B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user

^(*) Common European Framework of Reference (CEF) level

1. Emanuela Dreassi, Luca Pratelli, Pietro Rigo (2026) Knockoffs for exchangeable categorical covariates, accepted, *Statistical Methods and Applications*.
2. Emanuela Dreassi, Luca Pratelli, Pietro Rigo (2025) Bayesian nonparametric inference on a Fréchet class, *Theory of Probability and Mathematical Statistics*, **113**, 51–64.
3. Berti P, Dreassi E, Leisen F, Pratelli L, Rigo P (2025) A probabilistic view on predictive constructions for Bayesian learning, *Statistical Science*, **40**, 25–39.
4. Limoncella G, Gini R, Dreassi E, Grilli L, Rampichini C (2024) Addressing bias due to measurement error of an outcome with unknown sensitivity in database epidemiological studies, *American Journal of Epidemiology*, published online.
5. Innocenti A, Paderi M, Dreassi E (2024) Structural Mastopexy: volume displacement in breast reshaping, *Aesthetic Plastic Surgery*, doi: 10.1007/s00266-024-04415-1.
6. Dreassi E, Leisen F, Pratelli L, Rigo P (2024) Generating knockoffs via conditional independence, *Electronic Journal of Statistics*, **18**, 119–144.
7. Berti P, Dreassi E, Leisen F, Pratelli L, Rigo P (2023) Bayesian predictive inference without a prior, *Statistica Sinica*, **33**, 2405–2429.
8. Berti P, Dreassi E, Leisen F, Pratelli L, Rigo P (2023) Kernel based Dirichlet sequences, *Bernoulli*, **29**, 1321–1342.
9. Innocenti A, Melita D, Dreassi E (2022) Incidence of complications for different approaches in gynecomastia correction: a systematic review of the literature, *Aesthetic Plastic Surgery*, **46**, 1025–1031.
10. Berti P, Dreassi E, Leisen F, Pratelli L, Rigo P (2022) New perspectives on knockoffs construction, *Journal of Statistical Planning and Inference*, **223**, 1–14.
11. Gagliardini R, Baccini M, Modica S, Montagnani F, Zanelli G, Dreassi E, Di Giambenedetto S, Lombardi F, Pecorari M, Borghi V, Callegaro A, Micheli V, Annovazzi Lodi M, Rossetti B, Zazzi M (2022) Impact of resistance mutations on efficacy of dolutegravir plus rilpivirine or dolutegravir plus lamivudine as maintenance regimens: a cohort study, *Journal of Global Antimicrobial Resistance*, **28**, 274–281.
12. Berti P, Dreassi E, Pratelli L, Rigo P (2021) A class of models for Bayesian predictive inference, *Bernoulli*, **27**, 702–726.
13. Berti P, Dreassi E, Pratelli L, Rigo P (2021) Asymptotics of certain conditionally identically distributed sequences, *Statistics & Probability Letters*, **168**, 1–10.
14. Ghasemi S, Mahaki B, Dreassi E, Aghamohammadi S (2020) Spatial variation of lung cancer mortality and related men-women disparities from 2011 to 2014, *Cancer Management and Research*, **12**, 4615–4624.
15. Innocenti A, Dreassi E, Vece C, Melita D, Innocenti M (2020) Evaluation of Residual Neuro-Muscular Integrity in the Orbicularis Oculi Muscle After Lower Eyelid Transcutaneous Blepharoplasty According to Reidy Adamson-s Flap, *Aesthetic Plastic Surgery*, 1–7.
16. Berti P, Dreassi E, Rigo P (2020) A notion of conditional probability and some of its consequences, *Decisions in Economics and Finance*, **43**, 3–15.
17. Innocenti M, Santini M, Dreassi E, Martin R, Melita D, Colombini B, Innocenti A (2019) Effects of cutaneous negative pressure application on perforator artery flow in healthy volunteers: a preliminary study, *Journal of Reconstructive Microsurgery*, **35**, 189–193.
18. Caltabiano M, Dreassi E, Rocco E, Vignoli D (2019) A subregional analysis of family change: The spatial diffusion of one-parent families across Italian municipalities, 1991-2011, *Population Space and Place*, **25**, 1–16.

19. Dreassi E (2018) Space-cohort analysis for lung cancer mortality in Tuscany from 1971 to 2010 using shared models: a hypothesis of association for silicosis, *Computational and Mathematical Methods in Medicine*, 1–10.
20. Nasrazadani M, Maracy MR, Dreassi E, Mahaki B (2018) Mapping of stomach, colorectal and bladder cancers in Iran, 2004-2009: Applying Bayesian Polytomous Logit model, *International Journal of Preventive Medicine*, **9**, 1–5.
21. Innocenti A, Mori F, Melita D, Dreassi E, Innocenti M (2017) Effects of orbicularis oculi flap anchorage to the periosteum of the upper orbital rim on the lower eyelid position after transcutaneous blepharoplasty. Statistical analysis of clinical outcomes, *Journal of Plastic, Reconstructive & Aesthetic Surgery*, **70**, 385–391.
22. Dreassi E, Rocco E (2017) A Bayesian semiparametric model for non negative semicontinuous data, *Communications in Statistics - Theory and Methods*, **46**, 5133–5146.
23. Innocenti A, Mori F, Melita D, Dreassi E, Ciancio F, Innocenti M (2017) Evaluation of Long-term Outcomes of Correction of Severe Blepharoptosis with Advancement of External Levator Muscle Complex: Descriptive Statistical Analysis of the Results, *In Vivo*, **31**, 111–115.
24. Dreassi E, Rigo P (2017) A note on compatibility of conditional autoregressive models, *Statistics & Probability Letters*, **125**, 9–16.
25. Innocenti A, Ciancio F, Melita D, Mori F, Portincasa A, Parisi D, Dreassi E, Innocenti M (2017) Periareolar access for Pectus Excavatum correction with silicone implants. A new method to minimize post-operative scars. Review of the literature, considerations and statistical analysis of clinical outcomes, *Aesthetic Plastic Surgery*, **41**, 878–886.
26. Tzavidis N, Ranalli MG, Salvati N, Dreassi E, Chambers R (2015) Robust small area prediction for counts, *Statistical Methods in Medical Research*, **24**, 373–395.
27. Dreassi E, Petrucci A, Rocco E (2014) Small area estimation for semicontinuous skewed spatial data: an application to the grape wine production in Tuscany, *Biometrical Journal*, **56**, 141–156.
28. Berti P, Dreassi E, Rigo P (2014) Compatibility results for conditional distributions, *Journal of Multivariate Analysis*, **125**, 190–203.
29. Dreassi E, Ranalli MG, Salvati N (2014) Semiparametric M-quantile Regression for count data, *Statistical Methods in Medical Research*, **23**, 591–610.
30. Chambers R, Dreassi E, Salvati N (2014) Disease mapping via Negative Binomial regression M-quantile, *Statistics in Medicine*, **33**, 4805–4824.
31. Berti P, Dreassi E, Rigo P (2013) A consistency theorem for regular conditional distributions, *Stochastics*, **85**, 500–509.
32. Biggeri A, Catelan D, Dreassi E (2009) The epidemic of lung cancer in Tuscany (Italy): a joint analysis of male and female mortality by birth cohort, *Spatial and Spatio-temporal Epidemiology*, **1**, 31–40.
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