FORMATO EUROPEO PER IL CURRICULUM VITAE

PERSONAL INFORMATION

First name/Surname	**VALENTINA MAMELI**
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WORK ESPERIENCE

• Date	From 11/28/2022-present
• University of Udine	Department of Economics and Statistics
• SSD Role	Associate professor in Statistics (SECS-S\01)
• Date	11/28/2019-11/27/2022
• University of Udine	Department of Economics and Statistics
• SSD Role	Assistant Professor (tenure track (RTDB)) in Statistics (SECS-S\01)
• Date	05/14/2018-11/27/2019
• Ca' Foscari University of Venice	Department of Environmental Sciences, Informatics and Statistics
• SSD Role	Assistant Professor (Non-tenure track (RTDA)) in Statistics (SECS-S\01)
• Date	05/01/2017-04/30/2018
• Ca' Foscari University of Venice	European Centre for Living Technology
• Role	Post-doc researcher
	Project "Analisi di dati ad alta dimensionalità". Supervisor: Prof. Irene Poli.
• Date	04/07/2016-04/06/2017
• Ca' Foscari University of Venice	Department of Environmental Sciences, Informatics and Statistics in collaboration with European Centre for Living Technology

• Role	Post-doc researcher
	Project “Disegno Bayesiano evolutivo per esperimenti ad alta dimensionalità”. Supervisor: Debora Slanzi.
• Date	04/07/2015-04/06/2016
• Ca’ Foscari University of Venice	Department of Environmental Sciences, Informatics and Statistics
• Role	Post-doc researcher
	Project “Distribuzioni predittive composite”. Supervisor: Prof. Federica Giummolè.
• Date	12/22/2014-03/31/2015
• University of Cagliari	Department of Mathematics and Informatics
• Role	Research grant
	Project “Scoring rules locali: uno strumento versatile per l’inferenza statistica”. Supervisor: Prof. Monica Musio.
• Date	12/04/2013-12/03/2014
• University of Cagliari	Department of Mathematics and Informatics
• Role	Post-doc researcher
	Project “Scoring rules locali: uno strumento versatile per l’inferenza statistica”. Supervisor: Prof. Monica Musio.
• Date	08/01/2012-07/31/2013
• University of Padova	Department of Statistical Sciences
• Role	Post-doc researcher
	Project “Verosimiglianza e teoria asintotica in condizioni non regolari.” Supervisor: Prof. Alessandra R. Brazzale.

EDUCATION AND TRAINING

• Date	03/29/2012
• University of Cagliari	Department of Mathematics and Informatics
• Title of qualification awarded	PhD in Mathematics and Scientific computation. Thesis “Two generalizations of the skew-normal distributionand two variants of McCarthy’s theorem”. Supervisor. Prof. Monica Musio
• Date	03/01/2009-02/28/2012
• University of Cagliari	Department of Mathematics and Informatics
• Title of qualification awarded	PhD student in Mathematics and Scientific computation
• Date	09/29/2008
• Title of qualification awarded	University of Cagliari Master degree in Mathematics. Thesis: “Analisi complessa e applicazioni”.
• Date	04/28/2006
• Title of qualification awarded	University of Cagliari Bachelor degree in Mathematics. Thesis “Intervallidi confidenza per famiglie multivariate.

PERIODS ABROAD

From 09/15/2010 to 12/15/2010 and from 01/13/2011 to 05/31/2011 at “Statistical Laboratory, Centre for Mathematical Sciences” University of Cambridge, England. PhD visiting student (invited by Prof. Philip Dawid).

MOTHER TONGUE **Italian**

OTHER LANGUAGES

English

- Reading: Excellent
- Writing: Good
- Speaking: Good

French

- Reading: Elementary
- Writing: Elementary
- Speaking: Elementary

INSTITUTIONAL POSITIONS HELD IN UNIVERSITY

Member of the PhD board in Mathematical and Physical Sciences (from 2021).

SCIENTIFIC PAPERS

A selection of published papers

1. **Mameli, V.,** Slanzi, D., Poli, I., Green, D. (2021). “Search for relevant subsets of binary predictors in high dimensional regression”. Pharmaceutical Statistics, **20**, 898–915.
2. Slanzi, D., **Mameli, V.,** Brown, P.J. (2021). A comparative study on high-dimensional Bayesian regression with binary predictors. Communication in Statistics-Simulation and Computation. Online first.
3. Columbu, S., **Mameli, V.,** Musio, M. and Dawid, A. P. (2021). The Hyvärinen scoring rule in Gaussian linear time series models. Journal of Statistical Planning and Inference, **212**, 126–140.
4. P. Girardi, L. Greco, **V. Mameli**, M. Musio, W. Racugno, E. Ruli, L. Ventura (2020). Robust inference for nonlinear regression models from the Tsallis score:application to Covid-19 contagion in Italy. Stat, **9(1)**, 1–9.
5. Distefano, V., **Mameli, V.,** Poli, I. (2020). Identifying spatial patterns with the Bootstrap ClustGeo technique. SPATIAL STATISTICS, **38** (ISSN:2211-6753).
6. Giummole’, F.; **Mameli, V.**; Ruli, E.; Ventura, L. (2019). Objective Bayesian inference with proper scoring rules. TEST, **28**, 728-755.
7. Giummole’, F. and **Mameli, V.** (2018). Asymptotic minimum scoring rule prediction. ELECTRONIC JOURNAL OF STATISTICS, **12**, 2401-2429 (ISSN 1935-7524)
8. **V. Mameli**, M. Musio, L. Ventura (2018). Bootstrap adjustments of signed scoring

rule root statistics, Communications in Statistics - Simulation andComputation. **47**, 1204-1215.

9. **Mameli, V.** and Brazzale, A. R. (2016). Modern Likelihood Inference for the Maximum/Minimum of a Bivariate Normal Vector, Journal of Statistical Computation and Simulation, **86 (10)**, 1869–1890.
10. **Mameli, V.** (2015). The Kumaraswamy skew-normal distribution. Statistics and Probability Letters, **104**, 75–81.
11. **Mameli, V.**, Ventura, L. (2015). Higher-order asymptotics for scoring rules. J. Statist. Plann. Inference,**165**, 13–26.
12. **Valentina Mameli** and Monica Musio (2013). A GENERALIZATION OF THE SKEW-NORMAL DISTRIBUTION: THE BETA SKEW-NORMAL. Communications in Statistics - Theory and Methods, **42 (12)**, 2229 – 2244.
13. **Valentina Mameli**, Monica Musio, Erik Sauleau and Annibale Biggeri (2012). Large sample confidence intervals for the skewness parameter of the skew normal distribution based on Fisher's transformation. Journal of Applied Statistics, **39 (08)**, 1693-1702.

The full list of published articles, conference papers and contributions in books can be found at the following link to IRIS archive link.

CONFERENCE PRESENTATIONS IN LAST YEARS

1. "Composite Tsallis score: A tool for robust inference". COMPSTAT 2022, 23-26 August 2022, Bologna (invited talk).
2. "Prediction intervals based on multiplicative combinations". SIS Scientific Meeting of the Italian Statistical Society 2022, 22-24 June 2022, Caserta (contributed talk).
3. "Bootstrap group penalties for predicting molecular properties". European Meeting of Statisticians, 22-26 July 2019, Palermo (contributed talk).
4. "On the estimation of highdimensional regression models with binary covariates". XLIX Scientific Meeting of the Italian Statistical Society, Palermo, 20-22 June 2018 (contributed talk).
5. "Bootstrap group penalty for highdimensional regression models". Intermediate conference of the Italian Statistical Society: Statistics and Data Science: new challenges, new generations. Firenze, 28-30 June 2017 (contributed talk).
6. "On the use of the Hyvärinen score in Bayesian inference". ISBA (2016) World meeting International Society for Bayesian Analysis, Santa Margherita di Pula, Sardinia, 13–17 June 2016 (invited talk).
7. "Scoring rules for prediction". 8-th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2015), London, 12-14 December 2015 (contributed talk).
8. "On the use of the signed scoring rule statistic in parametric inference". 30-th European meeting of Statisticians, Amsterdam, 06-10 July 2015 (contributed talk).
9. "Comparison of approaches to inference in stationary AR(1) models". XLVII Scientific Meeting of the Italian Statistical Society, Cagliari, 11-13 June 2014 (invited talk).

RESEARCH PROJECTS AND GROUPS

Valentina Mameli is Associate Professor of Statistics at the Department of Economics and Statistics of the University of Udine.

He is a professor at the University of Udine for the master's degree in "Business Management" and "Viticulture, Oenology and Marketing", for the three-year degree course "Internet of Things, Big data, Machine Learning".
He was a referee for numerous statistical journals.
Her main research activity focuses on asymptotic theory of likelihood and pseudo-likelihood, non-regular models, estimation, and predictive methods based on scoring rule theory, modeling of high-dimensional data. She participated in the following research projects:

From 2016 to 2019

Member of the project funded by Glaxo Smith Kline (UK). Title: “Building Lead Optimization Over Large Molecular spaces (BLOOM)” (supervisor Prof. Irene Poli, Ca Foscari University of Venice).

From 2013 to 2016

Member of the research project (RAS 2012) of the autonomous region of Sardinia. Title: "Mathematical developments in methodological statistics with applications to real problems" (coordinator Walter Racugno, University of Cagliari).

PRIVACY

I authorize the processing of my personal data in accordance with Article 13 of Legislative Decree No. 196 of June 30, 2003 – “Code regarding the protection of personal data" and Article 13 of the GDPR 679/16 – “European Regulation on the protection of personal data”

Date, 11/04/2023