

Caterina May

Curriculum vitae

PERSONAL DATA

Born in Milan on July 29th 1976

BIO AND EDUCATION

January 2007: PhD in Mathematics at University of Milan. Advisor: Prof. Piercesare Secchi (Politecnico di Milano). Specialization: Probability and Statistics

April 2002: Degree in Mathematics at University of Milan, with grade 110/110

UNIVERSITY CAREER

2014	<i>Abilitazione Scientifica Nazionale</i> for Associate Professor in 13/D1 Sector
2011-	Assistant Professor, Università del Piemonte Orientale, SSD SECS-S/01 Statistics
2006-2010	Research Fellow at the Department SEMeQ, Università del Piemonte Orientale, under the supervision of Prof. Aldo Goia
2002-2006	Scholarship for a PhD, University of Milan
2002	Scholarship <i>Borsa di Studio per la Formazione del Giovani più Promettenti</i> , University of Milan

UNIVERSITY POSITIONS

2011-	Member of the International Relations Committee (CoRI) at the Department DiSEI, Università del Piemonte Orientale
-------	---

SCIENTIFIC POSITIONS

2011	Invited participant at the program <i>Design and Analysis of Experiments</i> , at Isaac Newton Institute for Mathematical Sciences (Cambridge, U.K.)
------	--

2007-	Member of the GNAMPA
2006	Visiting Scholar at University of Missouri (USA)

MAIN FIELDS OF INTEREST

1. Probability and Statistics and their applications
2. Experimental design
3. Stochastic Processes and Urn Models
4. Functional Data Analysis

CURRENT ISSUES OF RESEARCH

1. Design of experiments

Optimum design of experiments. Design of experiments and optimum designs for Big Data problems. Design of experiments when functional observations occur. Properties and applications of sequential and response-adaptive designs.

2. Functional Data Analysis

Statistical inference when data are realizations from continuous processes.

TOP FIVE PAPERS

1. Aletti G., May C., Tommasi C. (2016). Best Estimation of Functional Linear Models. JOURNAL OF MULTIVARIATE ANALYSIS, vol. 151, p. 54-68.
<http://dx.doi.org/10.1016/j.jmva.2016.07.005>
2. Aletti G., May C., Tommasi C. (2015). KL-optimum designs: theoretical properties and practical computation. STATISTICS AND COMPUTING, (2014-09-24): 1-11, Print ISSN: 0960-3174, Online ISSN: 1573-137. doi: 10.1007/s11222-014-9515-8
3. May C. and Tommasi C. (2014). Model selection and parameter estimation in non-linear nested models: a sequential generalized DKL-optimum design. STATISTICA SINICA, vol. 24, p. 63-82, doi:10.5705/ss.2012.258.
4. Fusai, G., Goia, A. and May, C. (2010). Functional clustering and linear regression for peak load forecasting. INTERNATIONAL JOURNAL OF FORECASTING, vol. 26, p. 700-711, ISSN: 0169-2070, doi:10.1016/j.ijforecast.2009.05.015
5. May, C. and Flournoy, N. (2009). Asymptotics in response-adaptive designs generated by a two-color, randomly reinforced urn. THE ANNALS OF STATISTICS, 37(2), 1058-1078

FURTHER INFORMATION

Invited fellow at the international congresses *Model-Oriented Data Analysis and Optimum Design (MoDA Conference)*, every three years, since 2007