Tommaso Rigon

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Academic positions

Fondazione "de Castro" and Collegio Carlo Alberto

Turin, Italy

Research Affiliate

2017 – Present

I am a research affiliate at the Statistics initiative, Fondazione "de Castro" and collegio Carlo Alberto.



Education

Bocconi University

Milan, Italy

2015 – *Present* Ph.D. in Statistics

I have been awarded with a merit-based fellowship. My supervisors are professors Antonio Lijoi and Igor Prünster. My research interests include: Applied Bayesian modeling, Bayesian nonparametrics, Computational statistics (Optimization, variational inference, мсмс methods).

Università degli studi di Padova

Padua, Italy

M.S. in Statistical Sciences

2013 - 2015

I have attended with full grades the Ph.D. courses: "Theory and Methods of Inference" and "Statistical Models". Thesis supervisor: prof. Bruno Scarpa. Final mark: 110/110 with laude.

Università degli studi di Padova

Padua, Italy

B.S. in Statistics, Economics & Finance

2010 - 2013

Thesis supervisor: prof. Nicola Sartori. Final mark: 110/110 with laude.



Academic experience

Articles in refereed journals..... RIGON, T., DURANTE, D. AND TORELLI, N. (2019). Bayesian semiparametric modelling of contraceptive behavior in India via sequential logistic regressions. Journal of the Royal Statistical

Society, Series A **182**(1), 225–247.

Durante, D., Canale, A. and Rigon, T. (2018+). A nested expectation-maximization algorithm for latent class regression models. *Statistics & Probability Letters*, in press.

Submitted and working papers..... Durante, D. and Rigon, T. (2018+). Conditionally conjugate mean-field variational Bayes for

logistic models. arXiv:1711.06999, submitted. RIGON, T. AND DURANTE, D. (2018+). Tractable Bayesian density regression via logit stick-

breaking priors. arXiv:1701.02969, submitted.

Lijoi, A., Prünster, I and Rigon, T. (2018+). Sampling hierarchies of discrete random structures. Submitted.

Lijoi, A., Prünster, I and Rigon, T. (2018+). Bayesian inference for finite-dimensional discrete priors. In preparation.

RIGON, T., SCARPA, B. AND BARBIERATO, G. (2018+). An enriched functional mixture model for flight route segmentation. In preparation.

Refereed conference proceedings, publications in monographs.....

RIGON, T. (2018). Logit stick-breaking priors for partially exchangeable count data. In *Book of Short Papers of the Italian Statistical Society 2018* (Abbruzzo, A., Piacentino, D., Chiodi, M., and Brentari, E., editors). ISBN: 9788891910233.

Caponera, A., Denti, F., **Rigon, T.**, Sottosanti, A. and Gelfand, A. (2018). Hierarchical spatiotemporal modeling of resting state fMRI data. In *Studies in Neural Data Science* (Canale, A., Durante, D., Paci, L., Scarpa, B., editors).

Teaching activities.....

Bocconi UniversityMilan, ItalyTeaching Assistant2016 – 2017

I helped in the teaching activity of the master courses "Data analysis" and "Statistics for Economic and Business" proposing and solving exercises.

Università degli studi di Padova

Poster session, University of Texas, Austin

Padua, Italy

Academic Tutor

10 / 2014 - 09 / 2015

I helped new students to get started in my faculty. I managed study groups proposing and solving exercises, advising them about academic curricula and learning method.

Affiliations and editorial activities.....

Affiliations: International Society for Bayesian Analysis (ISBA), Italian Statistical Society (SIS), American Statistical Associations (ASA). Elected member of the board (2016-2018) of the young group of the Italian Statistical Society.

Referee for: Bayesian Analysis, Computational Statistics & Data Analysis, Statistical Methods & Applications, Statistics & Probability Letters.

Talks, conferences and workshops.

CMStatistics 2018 Invited speaker, Pisa, Italy	ERCIM 2018 12 / 2018
JSM 2018: Joint Statistical Meetings Invited speaker, Vancouver, Canada	JSM 2018 08 / 2018
BAYSM 2018: Bayesian Young Statisticians Meeting Contributed speaker, Warwick, UK	BAYSM 2018 07 / 2018
2018 ISBA world meeting Poster session, Edinburgh, UK	ISBA 2018 06 / 2018
49th Scientific meeting of the Italian Statistical Society Invited speaker, Palermo, Italia	SIS 2018 06 / 2018
Scalable Statistics: on Accuracy and Computational Complexity Contributed speaker, Eindhoven, Netherlands	YES IX 03 / 2018
The IISA International Conference On Statistics Invited speaker, Hyderabad, India	IISA 2017 12 / 2017
International Workshop on Objective Bayes Methodology	O'Bayes 2017

12 / 2017

Bayesian Inference in Stochastic Processes

Poster session, Bocconi University, Milan

BISP 10

06 / 2017

Italian Statistical Society (SIS) Bayes 2017

Poster session, Sapienza University, Rome

SIS Bayes 2017

International Society for Bayesian Analysis

Poster session, Cagliari

ISBA 2016

02 / 2017

06 / 2016



Industry experience

Groupon Dublin, Ireland

Internship

09/2014 - 11/2014

I worked in the development of projects concerning Search Engine Marketing (SEM) and Landing Page Optimization (LPO). I analyzed large amounts of data and developed algorithms for statistical learning. I created a web-based user interface to improve the communication of the relevant results to the stakeholders.

Bravofly Rumbo Group

Chiasso, Switzerland

Customer Satisfaction Analyst

10/2013 - 07/2014

Business analyst with a part-time contract. I improved existing reports implementing statistical analysis and A-B testing procedures.

Bravofly Rumbo Group

Chiasso, Switzerland

Internship

05 / 2013 – 10 / 2013

During this internship, I have been engaged in two distinct projects concerning Customer satisfaction analysis and Attribution modeling for web analytics. I produced monthly reports about customer satisfaction and I helped to interpret results. The whole process was automatized, exploiting the synergies between LTFX, MySQL and R. Additionally, I created and implemented in R an attribution model based on Markov chains.



Awards

Stat under the Stars 4

06 / 2018 Palermo, Italia

As part of a team, I won the prize best objective prediction in the Stat under the Stars data competition, a satellite event of the Italian Statistical Society 2018 conference. Link to the event: https://www.unipa.it/dipartimenti/ seas/sus4/.

ISBA travel support

ISBA 2018 World meeting

06 / 2018

ISBA travel support (250\$) for ISBA 2018 world meeting in Edinburgh, UK.

ISBA travel support

O'Bayes 2017

12 / 2017

ISBA travel support (700\$) for the O'Bayes 2017 conference in Austin, Texas.

Young-CLADAG data contest

Young-CLADAG

09 / 2017

As part of a team, I won a data competition organized by YoungCLADAG, a satellite event of the CLADAG conference.

Academic merit award

Bocconi University

09 / 2017

Best PhD student within the Statistics program in Bocconi university, for the academic year 2016 – 2017.

Prediction competition: winner

Bocconi Summer School

07 / 2017

Have a look at the article talking about this! https://www.knowledge.unibocconi.it/notizia.php?idArt=1855.

IT skills

General software.....

Basic: C++.

Intermediate: Linux systems, MongoDB, Hadoop, Google Analytics, Google Adwords, HTML.

Advanced: MySQL, LATEX.

Statistical software and programming languages.

Basic: spss, Gretl, Lisrel.

Intermediate: Python, sas, Stata, Julia, Matlab, Stan.

Advanced: R.

Further skills and certifications.

Applied Analytics Using SAS Enterprise Miner

Milan, Italy

sas formation course

11/2018

I attended the 3 days long course called "Applied Analytics Using SAS Enterprise Miner", held in Milan and provided by sas.

a Outreach and scolarships

Bocconi Summer School in Advanced Statistics and Probability

Como, Italy

Summer School

07 / 2017

I attended the summer school in Bocconi Summer School in Advanced Statistics and Probability: Statistical Causal Learning.

StartUp Research

Certosa di Pontignano, Italy

Workshop

06 / 2017

StartUp Research was a 2-day meeting where small research groups of young scholars, advised by senior researchers with a well-established experience in different areas of Statistics, will be asked to develop innovative methods and models to analyze a common dataset from the Neurosciences.

Università degli studi di Padova

Padua, Italy

Exhibition in memory of Bernardo Colombo

04/2014

Collaboration in the realization of an exhibition in memory of Bernardo Colombo, available here http://mostra-colombo.stat.unipd.it/

J. T. Schwartz International School for Scientific Research

Lipari, Italy

Summer School

07 / 2013

Attended the summer school in Computational Social Science: big data.

AGESCI

Venice, Italy 1999 – 2013

*Member*Member of the scout association AGESCI, with whom I did various kinds of voluntary work.

(2)

Language skills

Italian: Mothertongue **English**: Fluent, C1 level.