# **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

Ph.D. in Statistics

2015 – *Present* 

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.

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

RIGON, T., DURANTE, D. AND TORELLI, N. (2018+). Bayesian semiparametric modelling of contraceptive behavior in India via sequential logistic regressions. Journal of the Royal Statistical *Society, Series A*, 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 stickbreaking 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

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....

Poster session, Bocconi University, Milan

JSM 2018: Joint Statistical Meetings Invited speaker, Vancouver, Canada	<b>JSM 2018</b> 08 / 2018
BAYSM 2018: Bayesian Young Statisticians Meeting Contributed speaker, Warwick, UK	<b>BAYSM 2018</b> 07 / 2018
2018 ISBA world meeting Poster session, Edinburgh, UK	<b>ISBA 2018</b> 06 / 2018
49th Scientific meeting of the Italian Statistical Society Invited speaker, Palermo, Italia	<b>SIS 2018</b> 06 / 2018
Scalable Statistics: on Accuracy and Computational Complexity Contributed speaker, Eindhoven, Netherlands	<b>YES IX</b> 03 / 2018
The IISA International Conference On Statistics Invited speaker, Hyderabad, India	<b>IISA 2017</b> 12 / 2017
International Workshop on Objective Bayes Methodology Poster session, University of Texas, Austin	<b>O'Bayes 2017</b> 12 / 2017
Bayesian Inference in Stochastic Processes	BISP 10

06 / 2017

#### Italian Statistical Society (SIS) Bayes 2017

Poster session, Sapienza University, Rome

SIS Bayes 2017

02 / 2017

#### **International Society for Bayesian Analysis**

Poster session, Cagliari

ISBA 2016

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 LaTeX, MySQL and R. Additionally, I created and implemented in R an attribution model based on Markov chains.



#### **Awards**

#### Stat under the Stars 4

Palermo, Italia 06 / 2018

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.