# **Tommaso Rigon**



# **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.

#### 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.** (2019). A nested expectation-maximization algorithm for latent class regression models. *Statistics & Probability Letters* **146**, 97–103.

#### Submitted and working papers.....

Durante, D. and **Rigon, T.** (2019+). Conditionally conjugate mean-field variational Bayes for logistic models. *arXiv:1711.06999*, submitted.

**RIGON, T.** AND DURANTE, D. (2019+). Tractable Bayesian density regression via logit stickbreaking priors. *arXiv*:1701.02969, submitted.

Lijoi, A., Prünster, I. and **RIGON**, **T.** (2019+). Sampling hierarchies of discrete random structures. Submitted.

Lijoi, A., Prünster, I. and **RIGON, T.** (2019+). Bayesian inference for finite-dimensional discrete priors. In preparation.

RIGON, T. (2019+). 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 University Milan, Italy

Teaching Assistant

2016 – 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

2014 - 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**: Annals of Statistics, Bayesian Analysis, Computational Statistics & Data Analysis, Journal of Computational & Graphical Statistics, Statistical Methods & Applications, Social Indicators Research, Statistics & Probability Letters.

Talks, conferences and workshops.....

Times, conjectuces with the receipt	
CMStatistics 2018 Invited speaker, Pisa, Italy	ERCIM 2018 12 / 2018
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**

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, MySQL, MongoDB, Hadoop, Google Analytics, Google Adwords, HTML.

**Advanced**: 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.

# 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://mostracolombo.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.

# Language skills

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