

# Tommaso Rigon

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## Academic positions

**Collegio Carlo Alberto**

*Research Affiliate*

Research affiliate at the “Statistics initiative”, Fondazione “de Castro”, Turin.

**Turin, Italy**

2017 – Present

## Education

**Bocconi University**

*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, MCMC methods).

**Milan, Italy**

2015 – Present

**Università degli studi di Padova**

*M.S. in Statistical Sciences*

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.

**Padua, Italy**

2013 – 2015

**Università degli studi di Padova**

*B.S. in Statistics, Economics & Finance*

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

**Padua, Italy**

2010 – 2013

## 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 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 spatio-temporal 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* 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). 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**.....

**JSM 2018: Joint Statistical Meeting** **JSM 2018**  
*Invited speaker, Vancouver, Canada* 08 / 2018

**BAYSM 2018: Bayesian Young Statisticians Meeting** **BAYSM 2018**  
*Contributed speaker, Warwick, UK* 07 / 2018

**2018 ISBA world meeting** **ISBA 2018**  
*Poster session, Edinburgh, UK* 06 / 2018

**49th Scientific meeting of the Italian Statistical Society** **SIS 2018**  
*Invited speaker, Palermo, Italia* 06 / 2018

**Scalable Statistics: on Accuracy and Computational Complexity** **YES IX**  
*Contributed speaker, Eindhoven, Netherlands* 03 / 2018

**The IISA International Conference On Statistics** **IISA 2017**  
*Invited speaker, Hyderabad, India* 12 / 2017

**International Workshop on Objective Bayes Methodology** **O'Bayes 2017**  
*Poster session, University of Texas, Austin* 12 / 2017

**Bayesian Inference in Stochastic Processes** **BISP 10**  
*Poster session, Bocconi University, Milan* 06 / 2017

**SIS Bayes 2017** **SIS Bayes 2017**  
*Poster session, Sapienza University, Rome* 02 / 2017

## Industry experience

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- 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  $\text{\LaTeX}$ , MySQL and R. Additionally, I created and implemented in R an attribution model based on Markov chains.

## Awards

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- 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 SIS 2018 conference. Link to the event: <https://www.unipa.it/dipartimenti/seas/sus4/>.
- ISBA travel support** 06 / 2018  
*ISBA 2018 World meeting*  
ISBA travel support (250\$) for ISBA 2018 world meeting in Edinburgh, UK.
- ISBA travel support** 12 / 2017  
*O'Bayes 2017*  
ISBA travel support (700\$) for the O'Bayes 2017 conference in Austin, Texas.
- Young-CLADAG data contest** 09 / 2017  
*Young-CLADAG*  
As part of a team, I won a data competition organized by YoungCLADAG, a satellite event of the CLADAG conference.
- Academic merit award** 09 / 2017  
*Bocconi University*  
Best PhD student within the Statistics program in Bocconi university, for the academic year 2016 – 2017.
- Prediction competition: winner** 07 / 2017  
*Bocconi Summer School*  
Have a look at the article talking about this! <https://www.knowledge.unibocconi.it/notizia.php?idArt=1855>.

## IT skills

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- General software.....
- Basic:** C++.
- Intermediate:** Linux systems, MongoDB, Hadoop, Google Analytics, Google Adwords, HTML.

**Advanced:** MySQL, L<sup>A</sup>T<sub>E</sub>X.

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 scholarships

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**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**

*Member*

1999 – 2013

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

## Language skills

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**Italian:** Mother tongue

**English:** Fluent, C1 level.