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, MCMC 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.** (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.** (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), 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 **ERCIM 2018**
Invited speaker, Pisa, Italy *12 / 2018*

JSM 2018: Joint Statistical Meetings **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*

Italian Statistical Society (SIS) Bayes 2017 **SIS Bayes 2017**
Poster session, Sapienza University, Rome *02 / 2017*

International Society for Bayesian Analysis **ISBA 2016**
Poster session, Cagliari *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.

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**
Member *1999 – 2013*
Member of the scout association AGESCI, with whom I did various kinds of voluntary work.

Language skills

Italian: Mothertongue

English: Fluent, C1 level.