Tommaso Rigon

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RESEARCH INTERESTS
Applied Bayesian Modeling, Bayesian clustering, Bayesian Nonparametrics, Computational Statistics, Functional Data Analysis

CURRENT POSITION
Research Associate, Department of Statistical Sciences, Duke University (from 10/2019 to 09/2020)

PAST POSITIONS

Academic

Research Affiliate, de Castro Statistics Initiative, Collegio Carlo Alberto (from 09/2017 to 12/2019)

Business

Internship at Groupon, Dublin, Ireland. Development of statistical strategies for search engine marketing and landing-page optimization (from 09/2014 to 11/2014)

Business analyst (part-time) at Bravofly Rumbo Group, Chiasso, Switzerland. Statistical analysis of A-B testing procedures (from 10/2013 to 07/2014)

Internship at Bravofly Rumbo Group, Chiasso, Switzerland (from 05/2013 to 10/2013)

EDUCATION

Bocconi University, Milan, Italy

Ph.D., Statistics (*Dottorato di ricerca in Statistica*), Department of Decision Sciences (from 09/2015 to 09/2019, expected thesis defence 01/2020)
- Thesis Topic: Finite-dimensional nonparametric priors: theory and applications
- Advisors: Antonio Lijoi and Igor Prünster

Università degli Studi di Padova, Padova, Italy

M.S., Statistical Sciences (*Laurea Magistrale in Scienze Statistiche*), School of Statistics (from 10/2013 to 09/2015)
- Thesis Topic: Functional telecommunication data: a Bayesian nonparametric approach
- Advisor: Bruno Scarpa
- Final mark: 110/110 with laude

B.S., Statistics, Economics & Finance (*Laurea Triennale in Statistica, Economia & Finanza*), School of Statistics (from 10/2010 to 04/2013)
- Thesis Topic: Box-Cox transformation: an analysis based on the likelihood
- Advisor: Nicola Sartori
- Final mark: 110/110 with laude

AWARDS

Academic awards
- Best Ph.D. student in Statistics at Bocconi University in the Academic Year 2016/2017 (09/2017)

Data competitions
- Best objective prediction at Stat under the Stars 4, Palermo, Italy (06/2018)
- Winner of the Young-CLADAG data contest, Milan, Italy (09/2017)
- Winner of the Bocconi summer school data competition, Como, Italy (07/2017)

Travel supports

- Travel support (400£) for O'Bayes 2019 conference, Warwick, UK (06/2019)

- Travel support (accommodation) for the BNP12 conference, Oxford, UK (06/2019)

- ISBA travel support (250$) for ISBA 2018 world meeting, Edinburgh, UK (06/2018)

- ISBA travel support (700$) for the O'Bayes 2017 conference, Austin, Texas (12/2017)

PUBLICATIONS

Articles in refereed journals

1. LIJOI, A., PRÜNSTER, I. AND **RIGON, T.** (2020). The Pitman–Yor multinomial process for mixture modeling. *Biometrika*, in press

2. DURANTE, D. AND **RIGON, T.** (2019). Conditionally conjugate mean-field variational Bayes for logistic models. *Statistical Science*, **34**(3), 472–485

3. **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

4. 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

1. **RIGON, T.** AND DURANTE, D. (2019+). Tractable Bayesian density regression via logit stick-breaking priors. *arXiv:1701.02969*, under revision

2. LIJOI, A., PRÜNSTER, I. AND **RIGON, T.** (2019+). Sampling hierarchies of discrete random structures. Under revision

3. **RIGON, T.** (2019+). An enriched mixture model for functional clustering. Submitted

4. LIJOI, A., PRÜNSTER, I. AND **RIGON, T.** (2019+). Finite-dimensional discrete random structures and Bayesian clustering. Submitted

Refereed conference proceedings, publications in monographs, discussions

1. ALIVERTI, E., PAGANIN, S., **RIGON, T.** AND RUSSO, M. (2019+). A discussion on: "Latent nested nonparametric priors" by Camerlenghi, F., Dunson, D. B., Lijoi, A., Prünster, I. and Rodríguez, A in *Bayesian Analysis*.

2. **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

3. 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)

CONFERENCES PRESENTATION

Invited presentations

- *11th International Conference of the ERCIM WG on Computational and Methodological Statistics*, Pisa, Italy (12/2018)

- *JSM 2018: Joint Statistical Meetings*, Vancouver, Canada (08/2018)

- *49th Scientific meeting of the Italian Statistical Society*, Palermo, Italy (06/2018)

- *The IISA International Conference on Statistics*, Hyderabad, India (12/2017)

Contributed presentations

- *12th International Conference on Bayesian Nonparametrics*, Oxford, UK (06/2019)

- *BAYSM 2018: Bayesian Young Statisticians Meeting*, Warwick, UK (07/2018)

- *YES IX Scalable Statistics: on Accuracy and Computational Complexity*, Eindhoven, Netherlands (03/2018)

Poster presentations

- *O'Bayes 2019*, Warwick, UK (06/2019)

- *2018 ISBA world meeting*, Edinburgh, UK (06/2018)

- *O'Bayes 2017*, Austin, US (12/2017)

- *10th international workshop on Bayesian inference in stochastic processes (BISP10)*, Milan, Italy (6/2017)

- *Italian Statistical Society (SIS) Bayes 2017*, Rome, Italy (02/2017)

- *2016 ISBA world meeting*, Cagliari, Italy (06/2016)

SERVICE TO PROFESSION

Referee service (alphabetical order)

Annals of Statistics; Bayesian Analysis; Computational Statistics & Data Analysis; Electronic Journal of Statistics; European Journal of Operational Research; IEEE Transactions on Neural Networks and Learning Systems; Journal of Computational & Graphical Statistics; Journal of the American Statistical Association; Statistical Methods & Applications; Social Indicators Research; Statistics & Probability Letters

Positions in Academic Societies

- Elected member of the board (2016-2018) of the young group (ySIS) of the Italian Statistical Society

Organization of Scientific Events

- Organizer of the ySIS session *think outside of the black-box: statistical reasoning in applications* of the SIS2019: Smart Statistics for Smart Applications conference, Milan, Italy (06/2019)

- Member of the organising committee of Stats under the Stars 5, a hackathon for young Data Scientists, Milan, Italy (06/2019)

- Member of the local organising committee of the 10th international workshop on Bayesian inference in stochastic processes (BISP10), Milan, Italy (11/2017)

TEACHING

Bocconi University, Milan, Italy

Teaching Assistant
- Data analysis (Academic Year 2016/2017)
- Statistics for economic and business (Academic Year 2016/2017)

Università degli Studi di Padova, Padova, Italy

Academic tutor
- Introduction to real analysis (Academic Year 2014/2015)
- Advanced statistical inference (Academic Year 2014/2015)

SUMMER SCHOOLS AND WORKSHOPS

Summer Schools

- *Bocconi Summer School in Advanced Statistics and Probability*, Como, Italy (07/2017)

- *J. T. Schwartz International School for Scientific Research*, Lipari, Italy (07/2013)

Workshops

- *StartUp Research*, Certosa di Pontignano, Italy (06/2017)

Updated December 3, 2019