

# Tommaso Rigon

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CONTACT INFORMATION	Department of Statistical Science Duke University 214 Old Chemistry Bldg. Box 90251 Durham, NC 27708-0251	<i>Email:</i> <a href="mailto:tommaso.rigon@gmail.com">tommaso.rigon@gmail.com</a> <i>Website:</i> <a href="https://tommasorigon.github.io">https://tommasorigon.github.io</a> <i>Orcid:</i> <a href="https://orcid.org/0000-0002-9224-543X">orcid.org/0000-0002-9224-543X</a>
RESEARCH INTERESTS	Applied Bayesian Modeling, Bayesian clustering, Bayesian Nonparametrics, Computational Statistics, Functional Data Analysis, Mixture Models, Species Sampling Models	
CURRENT POSITION	<b>Postdoctoral Associate</b> Duke University, Department of Statistical Sciences, Durham, US (from 02/2020 to present)	
PAST ACADEMIC POSITIONS	<b>Research Associate</b> Duke University, Department of Statistical Sciences, Durham, US (from 10/2019 to 02/2020) <b>Research Affiliate</b> de Castro Statistics Initiative, Collegio Carlo Alberto, Turin, Italy (from 09/2017 to 12/2019)	
PAST BUSINESS POSITIONS	<b>Intern</b> Groupon, Dublin, Ireland (from 09/2014 to 11/2014) <b>Business analyst</b> Bravofly Rumbo Group, Chiasso, Switzerland (from 10/2013 to 07/2014) <b>Intern</b> Bravofly Rumbo Group, Chiasso, Switzerland (from 05/2013 to 10/2013)	
EDUCATION	<b>Bocconi University</b> , Milan, Italy  <b>Ph.D. in Statistics</b> ( <i>Dottorato di ricerca in Statistica</i> ), Department of Decision Sciences (from 09/2015 to 09/2019, thesis defense 01/2020) <ul style="list-style-type: none"><li>• Thesis Topic: <i>Finite-dimensional nonparametric priors: theory and applications</i></li><li>• Advisors: Antonio Lijoi and Igor Prünster</li><li>• Ph.D. awarded with honors</li></ul> <b>Università degli Studi di Padova</b> , Padova, Italy  <b>M.Sc. in Statistical Sciences</b> ( <i>Laurea Magistrale in Scienze Statistiche</i> ), School of Statistics (from 10/2013 to 09/2015) <ul style="list-style-type: none"><li>• Thesis Topic: <i>Functional telecommunication data: a Bayesian nonparametric approach</i></li><li>• Advisor: Bruno Scarpa</li><li>• Final mark: 110/110 with honors</li></ul> <b>B.Sc. in Statistics, Economics &amp; Finance</b> ( <i>Laurea Triennale in Statistica, Economia &amp; Finanza</i> ), School of Statistics (from 10/2010 to 04/2013) <ul style="list-style-type: none"><li>• Thesis Topic: <i>Box-Cox transformation: an analysis based on the likelihood</i></li><li>• Advisor: Nicola Sartori</li><li>• Final mark: 110/110 with honors</li></ul>	
AWARDS	<b>Academic awards</b>  [2019] Travel award (accommodation) for the BNP12 conference, Oxford, UK [2019] Travel award (400£) for the O'Bayes 2019 conference, Warwick, UK [2018] Best objective prediction at <a href="#">Stat under the Stars 4</a> , Palermo, Italy [2018] ISBA travel award (250\$) for the ISBA 2018 world meeting, Edinburgh, UK [2017] ISBA travel award (700\$) for the O'Bayes 2017 conference, Austin, Texas [2017] Best Ph.D. student in Statistics at Bocconi University in the Academic Year 2016/2017 [2017] Winner of the Young-CLADAG data contest, Milan, Italy [2017] Winner of the Bocconi summer school data competition, Como, Italy	

**Refereed journals**

1. **Rigon, T.** and Durante, D. (2021). Tractable Bayesian density regression via logit stick-breaking priors. *Journal of Statistical Planning and Inference* **211**, 131–142
2. Lijoi, A., Prünster, I. and **Rigon, T.** (2020). Sampling hierarchies of discrete random structures. *Statistics & Computing*, in press
3. Lijoi, A., Prünster, I. and **Rigon, T.** (2020). The Pitman–Yor multinomial process for mixture modeling. *Biometrika*, in press
4. Durante, D. and **Rigon, T.** (2019). Conditionally conjugate mean-field variational Bayes for logistic models. *Statistical Science* **34**(3), 472–485
5. **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
6. 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**

7. **Rigon, T.** (2020+). An enriched mixture model for functional clustering. Submitted, *arXiv:1907.02493*
8. Lijoi, A., Prünster, I. and **Rigon, T.** (2019). Finite-dimensional discrete random structures and Bayesian clustering. *Collegio Carlo Alberto*, working paper. Submitted
9. **Rigon, T.**, Scarpa, B. and Petrone, S. (2020+). Enriched Pitman–Yor processes. Submitted, *arXiv:2003.12200*
10. Legramanti, S., **Rigon, T.** and Durante, D. (2020+). Bayesian testing for exogenous partition structures in stochastic block models. Submitted
11. **Rigon, T.**, Herring, A. H. and Dunson, D. B. (2020+). A generalized Bayes framework for probabilistic clustering. Submitted, *arXiv:2006.05451*
12. Legramanti, S., **Rigon, T.**, Durante, D. and Dunson, D. B. (2020+). Extended stochastic block models. Submitted, *arXiv:2007.08569*

**Refereed conference proceedings, publications in monographs, discussions**

13. 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* **14**(4), 1303–1356
14. **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
15. 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)

**Seminars**

[2020] *Collegio Carlo Alberto*, Università degli studi di Torino, Italy

**Invited presentations**

[2020] *Bayes Comp 2020*, Gainesville, Florida, US

[2019] *The IISA International Conference on Statistics*, Mumbai, India

[2019] *12th International Conference of the ERCIM WG on Computational and Methodological Statistics*, London, UK

[2018] *11th International Conference of the ERCIM WG on Computational and Methodological Statistics*, Pisa, Italy

- [2018] *JSM 2018: Joint Statistical Meetings*, Vancouver, Canada
- [2018] *49th Scientific meeting of the Italian Statistical Society*, Palermo, Italy
- [2017] *The IISA International Conference on Statistics*, Hyderabad, India

#### Contributed presentations

- [2019] *12th International Conference on Bayesian Nonparametrics*, Oxford, UK
- [2018] *BAYSM 2018: Bayesian Young Statisticians Meeting*, Warwick, UK
- [2018] *YES IX Scalable Statistics: on Accuracy and Computational Complexity*, Eindhoven, Netherlands

#### Poster presentations

- [2019] *O'Bayes 2019*, Warwick, UK
- [2018] *2018 ISBA world meeting*, Edinburgh, UK
- [2017] *O'Bayes 2017*, Austin, US
- [2017] *10th international workshop on Bayesian inference in stochastic processes (BISP10)*, Milan, Italy
- [2017] *Italian Statistical Society (SIS) Bayes 2017*, Rome, Italy
- [2016] *2016 ISBA world meeting*, Cagliari, Italy

#### TEACHING

##### **Bocconi University**, Milan, Italy

Teaching Assistant

- Data analysis (B.Sc.) - Academic Year 2016/2017
- Statistics for economic and business (M.Sc.) - Academic Year 2016/2017

##### **Università degli Studi di Padova**, Padova, Italy

Academic tutor

- Introduction to real analysis (B.Sc.) - Academic Year 2014/2015
- Advanced statistical inference (M.Sc.) - Academic Year 2014/2015

#### FUNDING AND GRANTS

**Member of the research group** of the grant R01ES027498 funded by the National Institute of Environmental Health Sciences of the United States National Institutes of Health. PI: Amy H. Herring

#### SERVICE TO PROFESSION

##### **Referee service (alphabetical order)**

Annals of Statistics; Bayesian Analysis; Bernoulli; Biometrika; 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)

SUMMER SCHOOLS **Summer Schools and workshops**  
AND WORKSHOPS

- *StartUp Research*, Certosa di Pontignano, Italy (06/2017)
- *Bocconi Summer School in Advanced Statistics and Probability*, Como, Italy (07/2017)
- *J. T. Schwartz International School for Scientific Research*, Lipari, Italy (07/2013)