

# Tommaso Rigon

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CONTACT INFORMATION	<p>Department of Statistical Science Duke University 214 Old Chemistry Bldg. Box 90251 Durham, NC 27708-0251</p>	<p>Email: <a href="mailto:tommaso.rigon@gmail.com">tommaso.rigon@gmail.com</a> Website: <a href="https://tommasorigon.github.io">https://tommasorigon.github.io</a> Orcid: <a href="https://orcid.org/0000-0002-9224-543X">orcid.org/0000-0002-9224-543X</a></p>
RESEARCH INTERESTS	Applied Bayesian Modeling, Bayesian clustering, Bayesian Nonparametrics, Computational Statistics, Functional Data Analysis	
CURRENT POSITION	Research Associate, <a href="#">Department of Statistical Sciences, Duke University</a> (from 10/2019 to 09/2020)	
PAST POSITIONS	<p><b>Academic</b></p> <p>Research Affiliate, <a href="#">de Castro Statistics Initiative, Collegio Carlo Alberto</a> (from 09/2017 to 12/2019)</p> <p><b>Business</b></p> <p>Internship at <a href="#">Groupon</a>, Dublin, Ireland. Development of statistical strategies for search engine marketing and landing-page optimization (from 09/2014 to 11/2014)</p> <p>Business analyst (part-time) at <a href="#">Bravofly Rumbo Group</a>, Chiasso, Switzerland. Statistical analysis of A-B testing procedures (from 10/2013 to 07/2014)</p> <p>Internship at <a href="#">Bravofly Rumbo Group</a>, Chiasso, Switzerland (from 05/2013 to 10/2013)</p>	
EDUCATION	<p><b>Bocconi University</b>, Milan, Italy</p> <p>Ph.D., Statistics (<i>Dottorato di ricerca in Statistica</i>), <a href="#">Department of Decision Sciences</a> (from 09/2015 to 09/2019, thesis defense 01/2020)</p> <ul style="list-style-type: none"><li>• Thesis Topic: Finite-dimensional nonparametric priors: theory and applications</li><li>• Advisors: <a href="#">Antonio Lijoi</a> and <a href="#">Igor Prünster</a></li><li>• Ph.D. awarded with honors</li></ul> <p><b>Università degli Studi di Padova</b>, Padova, Italy</p> <p>M.S., Statistical Sciences (<i>Laurea Magistrale in Scienze Statistiche</i>), <a href="#">School of Statistics</a> (from 10/2013 to 09/2015)</p> <ul style="list-style-type: none"><li>• Thesis Topic: <a href="#">Functional telecommunication data: a Bayesian nonparametric approach</a></li><li>• Advisor: <a href="#">Bruno Scarpa</a></li><li>• Final mark: 110/110 with honors</li></ul> <p>B.S., Statistics, Economics &amp; Finance (<i>Laurea Triennale in Statistica, Economia &amp; Finanza</i>), <a href="#">School of Statistics</a> (from 10/2010 to 04/2013)</p> <ul style="list-style-type: none"><li>• Thesis Topic: <a href="#">Box-Cox transformation: an analysis based on the likelihood</a></li><li>• Advisor: <a href="#">Nicola Sartori</a></li><li>• Final mark: 110/110 with honors</li></ul>	
AWARDS	<p><b>Academic awards</b></p> <ul style="list-style-type: none"><li>• Best Ph.D. student in Statistics at Bocconi University in the Academic Year 2016/2017 (09/2017)</li></ul> <p><b>Data competitions</b></p> <ul style="list-style-type: none"><li>• Best objective prediction at <a href="#">Stat under the Stars 4</a>, Palermo, Italy (06/2018)</li><li>• Winner of the Young-CLADAG data contest, Milan, Italy (09/2017)</li><li>• Winner of the <a href="#">Bocconi summer school data competition</a>, Como, Italy (07/2017)</li></ul>	

## 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*, revision submitted
2. LIJOI, A., PRÜNSTER, I. AND RIGON, T. (2019+). Sampling hierarchies of discrete random structures. Revision submitted
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* **14**(4), 1303–1356.
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

- *ABC in Grenoble*, Grenoble, France (03/2020)
- *Bayes Comp 2020*, Gainesville, Florida, US (01/2020)
- *The IISA International Conference on Statistics*, Mumbai, India (12/2019)
- *12th International Conference of the ERCIM WG on Computational and Methodological Statistics*, London, UK (12/2019)
- *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 January 22, 2020