

# Tommaso Rigon

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CONTACT INFORMATION	Department of Economics, Management & Statistics University of Milano-Bicocca Building: U07, Room: 2034 Via Bicocca degli Arcimboldi, 8, 20126, Milan, Italy	<i>Email:</i> <a href="mailto:tommaso.rigon@unimib.it">tommaso.rigon@unimib.it</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	
RESEARCH NETWORKS	Member of the Datalab at the University of Milano-Bicocca, of <a href="#">BayesLab</a> at the Bocconi Institute for Data Science and Analytics (BIDSA), the “de Castro” <a href="#">Statistics Initiative</a> at Collegio Carlo Alberto, and the <a href="#">MIDAS</a> Complex Data Modeling Research Network	
CURRENT POSITION	<b>Assistant Professor</b> ( <i>Ricercatore SECS-S/01, Legge 240/10 tipo A</i> ) <a href="#">University of Milano-Bicocca</a> , Department of Economics, Management & Statistics (DEMS), Milan, Italy (from 10/2020 to present)	
PAST ACADEMIC POSITIONS	<b>Postdoctoral Associate</b> <a href="#">Duke University</a> , Department of Statistical Sciences, Durham, US (from 02/2020 to 09/2020) <b>Research Associate</b> <a href="#">Duke University</a> , Department of Statistical Sciences, Durham, US (from 10/2019 to 02/2020) <b>Research Affiliate</b> <a href="#">de Castro Statistics Initiative</a> , Collegio Carlo Alberto, Turin, Italy (from 09/2017 to 09/2020)	
PAST BUSINESS POSITIONS	<b>Intern</b> <a href="#">Groupon</a> , Dublin, Ireland (from 09/2014 to 11/2014) <b>Business analyst</b> <a href="#">Bravofly Rumbo Group</a> , Chiasso, Switzerland (from 10/2013 to 07/2014) <b>Intern</b> <a href="#">Bravofly Rumbo Group</a> , 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> ), <a href="#">Department of Decision Sciences</a> (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: <a href="#">Antonio Lijoi</a> and <a href="#">Igor Prünster</a></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> ), <a href="#">School of Statistics</a> (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: <a href="#">Bruno Scarpa</a></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> ), <a href="#">School of Statistics</a> (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: <a href="#">Nicola Sartori</a></li><li>. Final mark: 110/110 with honors</li></ul>	
AWARDS	<b>Academic awards</b>  [2017] <i>Best Ph.D. student in Statistics</i> . Bocconi University  [2015] <i>Ph.D. fellowship</i> . Bocconi University	

## Data competitions

- [2018] *Best objective prediction*. Stat under the Stars 4
- [2017] *Young-CLADAG data contest*. Classification and Data Analysis group
- [2017] *Bocconi summer school data competition*. Bocconi summer school

## Travel awards

- [2019] *Travel award (accommodation)*. BNP12 conference Oxford, UK
- [2019] *Travel award (400£)*. O’Bayes 2019 conference, Warwick, UK
- [2018] *ISBA travel award (250\$)*. ISBA 2018 world meeting, Edinburgh, UK
- [2017] *ISBA travel award (700\$)*. O’Bayes 2017 conference, Austin, Texas

## PUBLICATIONS

### 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. Legramanti, S., **Rigon, T.** and Durante, D. (2020). Bayesian testing for exogenous partition structures in stochastic block models. *Sankhya A: The Indian Journal of Statistics*
3. Lijoi, A., Prünster, I. and **Rigon, T.** (2020). Sampling hierarchies of discrete random structures. *Statistics & Computing*, **30**, 1591–1607
4. Lijoi, A., Prünster, I. and **Rigon, T.** (2020). The Pitman–Yor multinomial process for mixture modeling. *Biometrika*, **107**(4), 891–906
5. Durante, D. and **Rigon, T.** (2019). Conditionally conjugate mean-field variational Bayes for logistic models. *Statistical Science* **34**(3), 472–485
6. **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
7. 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

8. Favaro, S., Panero, F. and **Rigon, T.** (2021+). Bayesian nonparametric disclosure risk assessment. Submitted
9. **Rigon, T.** (2021+). An enriched mixture model for functional clustering. Submitted, *arXiv:1907.02493*
10. Lijoi, A., Prünster, I. and **Rigon, T.** (2019). Finite-dimensional discrete random structures and Bayesian clustering. *Collegio Carlo Alberto*, working paper. Submitted
11. **Rigon, T.**, Scarpa, B. and Petrone, S. (2021+). Enriched Pitman–Yor processes. Submitted, *arXiv:2003.12200*
12. **Rigon, T.**, Herring, A. H. and Dunson, D. B. (2021+). A generalized Bayes framework for probabilistic clustering. Submitted, *arXiv:2006.05451*
13. Legramanti, S., **Rigon, T.**, Durante, D. and Dunson, D. B. (2021+). Extended stochastic block models with application to criminal networks. Submitted, *arXiv:2007.08569*
14. Zito, A., **Rigon, T.**, Ovaskainen, O., and Dunson, D. B. (2021+). Bayesian nonparametric modelling of sequential discoveries. Submitted, *arXiv:2011.06629*

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

15. **Rigon, T.**, Aliverti, E., Russo, M., and Scarpa, B. (2021). A discussion on: “Centered partition processes: Informative priors for clustering” Paganin, S., Herring, A. H., Olshan, A. F., Dunson, D. B., et al. (2021) in *Bayesian Analysis*

16. 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
17. **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
18. 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)

## PRESENTATIONS

### 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

### University of Milano-Bicocca, Milan, Italy

As lecturer

- Computational Statistics 2 (Ph.D.) - Academic Year 2020/2021 - 12h
- Statistics 1 (B.Sc.) - Academic Year 2020/2021 - 42h
- R for the multivariate statistical analysis (B.Sc.) - Academic Year 2020/2021 - 21h

## Bocconi University, Milan, Italy

As 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

As lecturer

- . Data mining (M.Sc.) - Academic Year 2020/2021 - 8h

As teaching assistant

- . 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; Biometrics; 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; Plos One; 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 j-ISBA session *Computational and modeling advances for complex biological data* at the [2021 World Meeting of the International Society for Bayesian Analysis](#) conference, virtual (06/2021)
- . 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 AND WORKSHOPS

### Summer Schools 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)

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del D.P.R. 445/2000.

Autorizzo la pubblicazione ai sensi del D.Lgs. n. 33/2013 “Riordino della disciplina riguardante gli obblighi di pubblicità, trasparenza e diffusione di informazioni da parte delle pubbliche amministrazioni” e acconsento all’utilizzo delle informazioni ivi contenute ai sensi del D.L. n. 196/2003 “Codice in materia di protezione dei dati personali”.

Updated May 31, 2021