

# Tommaso Rigon

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| CONTACT INFORMATION     | Department of Economics, Management & Statistics<br>University of Milano-Bicocca<br>Building: U07, Room: 2034<br>Via Bicocca degli Arcimboldi, 8, 20126, Milan, Italy  | <i>Email:</i> <a href="mailto:tommaso.rigon@unimib.it">tommaso.rigon@unimib.it</a><br><i>Website:</i> <a href="https://tommasorigon.github.io">https://tommasorigon.github.io</a><br><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 <a href="#">Datalab</a> 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> )<br><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><br><a href="#">Duke University</a> , Department of Statistical Sciences, Durham, US (from 02/2020 to 09/2020)<br><b>Research Associate</b><br><a href="#">Duke University</a> , Department of Statistical Sciences, Durham, US (from 10/2019 to 02/2020)<br><b>Research Affiliate</b><br><a href="#">de Castro Statistics Initiative</a> , Collegio Carlo Alberto, Turin, Italy (from 09/2017 to 09/2020)  |  |
| EDUCATION               | <b>Bocconi University</b> , Milan, Italy<br><br><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: <a href="#">Antonio Lijoi</a> and <a href="#">Igor Prünster</a></li><li>• Ph.D. awarded with honors</li></ul><br><b>Università degli Studi di Padova</b> , Padova, Italy<br><br><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: <a href="#">Bruno Scarpa</a></li><li>• Final mark: 110/110 with honors</li></ul><br><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: <a href="#">Nicola Sartori</a></li><li>• Final mark: 110/110 with honors</li></ul> |  |
| AWARDS                  | <b>Academic awards</b><br><br>[2021] <i>Savage Award (Theory and Methods)</i> . American Statistical Association (ASA) & International Society for Bayesian Analysis (ISBA)<br><br>[2017] <i>Best Ph.D. student in Statistics</i> . Bocconi University<br><br>[2015] <i>Ph.D. fellowship</i> . Bocconi university<br><br><b>Data competitions</b><br><br>[2018] <i>Best objective prediction</i> . <a href="#">Stat under the Stars 4</a><br><br>[2017] <i>Young-CLADAG data contest</i> . Classification and Data Analysis group<br><br>[2017] <i>Bocconi summer school data competition</i> . 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

[2021] *2021 ISBA world meeting*, virtual

[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

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| FUNDING AND GRANTS           | <p><b>Member of the research group</b> 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</p>   |                         |   |                              |  |
| SERVICE TO PROFESSION        | <p><b>Referee service (alphabetical order)</b></p> <p>Annals of Statistics; Bayesian Analysis; Bernoulli; Biometrics; Biometrika; Computational Statistics &amp; Data Analysis; Electronic Journal of Statistics; European Journal of Operational Research; IEEE Transactions on Neural Networks and Learning Systems; Journal of Computational &amp; Graphical Statistics; Journal of the American Statistical Association; Plos One; Statistical Methods &amp; Applications; Social Indicators Research; Statistics &amp; Probability Letters</p> <p><b>Positions in Academic Societies</b></p> <ul style="list-style-type: none"> <li>. Social media manager of the International Society for Bayesian Analysis (2021-2024)</li> <li>. Elected member of the board of the <a href="#">young group (ySIS)</a> of the Italian Statistical Society (2016-2018)</li> </ul> <p><b>Organization of Scientific Events</b></p> <ul style="list-style-type: none"> <li>. Organizer of the j-ISBA session <i>Computational and modeling advances for complex biological data</i> at the <a href="#">2021 World Meeting of the International Society for Bayesian Analysis</a> conference, virtual (06/2021)</li> <li>. Organizer of the ySIS session <i>think outside of the black-box: statistical reasoning in applications</i> of the <a href="#">SIS2019: Smart Statistics for Smart Applications</a> conference, Milan, Italy (06/2019)</li> <li>. Member of the organising committee of <a href="#">Stats under the Stars 5</a>, a hackathon for young Data Scientists, Milan, Italy (06/2019)</li> <li>. Member of the local organising committee of the <a href="#">10th international workshop on Bayesian inference in stochastic processes (BISP10)</a>, Milan, Italy (11/2017)</li> </ul> <tr> <td>PAST BUSINESS POSITIONS</td><td> <p><b>Intern</b><br/><a href="#">Groupon</a>, Dublin, Ireland (from 09/2014 to 11/2014)</p> <p><b>Business analyst</b><br/><a href="#">Bravofly Rumbo Group</a>, Chiasso, Switzerland (from 10/2013 to 07/2014)</p> <p><b>Intern</b><br/><a href="#">Bravofly Rumbo Group</a>, Chiasso, Switzerland (from 05/2013 to 10/2013)</p> </td></tr> <tr> <td>SUMMER SCHOOLS AND WORKSHOPS</td><td> <p><b>Summer Schools and workshops</b></p> <ul style="list-style-type: none"> <li>. <a href="#">StartUp Research</a>, Certosa di Pontignano, Italy (06/2017)</li> <li>. <a href="#">Bocconi Summer School in Advanced Statistics and Probability</a>, Como, Italy (07/2017)</li> <li>. <a href="#">J. T. Schwartz International School for Scientific Research</a>, Lipari, Italy (07/2013)</li> </ul> </td></tr> | PAST BUSINESS POSITIONS | <p><b>Intern</b><br/><a href="#">Groupon</a>, Dublin, Ireland (from 09/2014 to 11/2014)</p> <p><b>Business analyst</b><br/><a href="#">Bravofly Rumbo Group</a>, Chiasso, Switzerland (from 10/2013 to 07/2014)</p> <p><b>Intern</b><br/><a href="#">Bravofly Rumbo Group</a>, Chiasso, Switzerland (from 05/2013 to 10/2013)</p> | SUMMER SCHOOLS AND WORKSHOPS | <p><b>Summer Schools and workshops</b></p> <ul style="list-style-type: none"> <li>. <a href="#">StartUp Research</a>, Certosa di Pontignano, Italy (06/2017)</li> <li>. <a href="#">Bocconi Summer School in Advanced Statistics and Probability</a>, Como, Italy (07/2017)</li> <li>. <a href="#">J. T. Schwartz International School for Scientific Research</a>, Lipari, Italy (07/2013)</li> </ul> |
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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 July 9, 2021