

Tommaso Rigon

| | | |
|-------------------------|--|--|
| 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> tommaso.rigon@unimib.it <i>Website:</i> https://tommasorigon.github.io <i>Orcid:</i> orcid.org/0000-0002-9224-543X |
| 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 BayesLab at the Bocconi Institute for Data Science and Analytics (BIDSA), the “de Castro” Statistics Initiative at Collegio Carlo Alberto, and the MIDAS Complex Data Modeling Research Network | |
| CURRENT POSITION | Assistant Professor (<i>Ricercatore SECS-S/01, Legge 240/10 tipo A</i>) University of Milano-Bicocca , Department of Economics, Management & Statistics (DEMS), Milan, Italy (from 10/2020 to present) | |
| PAST ACADEMIC POSITIONS | Postdoctoral Associate Duke University , Department of Statistical Sciences, Durham, US (from 02/2020 to 09/2020) Research Associate Duke University , Department of Statistical Sciences, Durham, US (from 10/2019 to 02/2020) Research Affiliate de Castro Statistics Initiative , Collegio Carlo Alberto, Turin, Italy (from 09/2017 to 09/2020) | |
| EDUCATION | Bocconi University , Milan, Italy Ph.D. in Statistics (<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">• Thesis Topic: <i>Finite-dimensional nonparametric priors: theory and applications</i>• Advisors: Antonio Lijoi and Igor Prünster• Ph.D. awarded with honors Università degli Studi di Padova , Padova, Italy M.Sc. in Statistical Sciences (<i>Laurea Magistrale in Scienze Statistiche</i>), School of Statistics (from 10/2013 to 09/2015) <ul style="list-style-type: none">• Thesis Topic: <i>Functional telecommunication data: a Bayesian nonparametric approach</i>• Advisor: Bruno Scarpa• Final mark: 110/110 with honors B.Sc. in Statistics, Economics & Finance (<i>Laurea Triennale in Statistica, Economia & Finanza</i>), School of Statistics (from 10/2010 to 04/2013) <ul style="list-style-type: none">• Thesis Topic: <i>Box-Cox transformation: an analysis based on the likelihood</i>• Advisor: Nicola Sartori• Final mark: 110/110 with honors | |
| AWARDS | Academic awards [2021] <i>Savage Award (Theory and Methods)</i> . American Statistical Association (ASA) & International Society for Bayesian Analysis (ISBA) [2017] <i>Best Ph.D. student in Statistics</i> . Bocconi University [2015] <i>Ph.D. fellowship</i> . Bocconi university Data competitions [2018] <i>Best objective prediction</i> . Stat under the Stars 4 [2017] <i>Young-CLADAG data contest</i> . Classification and Data Analysis group [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

| | | | | | |
|------------------------------|--|------------------------------|--|------------------------------|--|
| FUNDING AND GRANTS | <p>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</p> | | | | |
| SERVICE TO PROFESSION | <p>Referee service (alphabetical order)</p> <p>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</p> <p>Positions in Academic Societies</p> <ul style="list-style-type: none"> . Social media manager of the International Society for Bayesian Analysis (2021-2024) . Elected member of the board (2016-2018) of the young group (ySIS) of the Italian Statistical Society <p>Organization of Scientific Events</p> <ul style="list-style-type: none"> . Organizer of the j-ISBA session <i>Computational and modeling advances for complex biological data</i> at the 2021 World Meeting of the International Society for Bayesian Analysis conference, virtual (06/2021) . Organizer of the ySIS session <i>think outside of the black-box: statistical reasoning in applications</i> 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) <tr> <td>PAST BUSINESS POSITIONS</td><td> <p>Intern Groupon, Dublin, Ireland (from 09/2014 to 11/2014)</p> <p>Business analyst Bravofly Rumbo Group, Chiasso, Switzerland (from 10/2013 to 07/2014)</p> <p>Intern Bravofly Rumbo Group, Chiasso, Switzerland (from 05/2013 to 10/2013)</p> <tr> <td>SUMMER SCHOOLS AND WORKSHOPS</td><td> <p>Summer Schools and workshops</p> <ul style="list-style-type: none"> . StartUp Research, Certosa di Pontignano, Italy (06/2017) . <i>Bocconi Summer School in Advanced Statistics and Probability</i>, Como, Italy (07/2017) . <i>J. T. Schwartz International School for Scientific Research</i>, Lipari, Italy (07/2013) </td></tr> </td></tr> | PAST BUSINESS POSITIONS | <p>Intern Groupon, Dublin, Ireland (from 09/2014 to 11/2014)</p> <p>Business analyst Bravofly Rumbo Group, Chiasso, Switzerland (from 10/2013 to 07/2014)</p> <p>Intern Bravofly Rumbo Group, Chiasso, Switzerland (from 05/2013 to 10/2013)</p> <tr> <td>SUMMER SCHOOLS AND WORKSHOPS</td><td> <p>Summer Schools and workshops</p> <ul style="list-style-type: none"> . StartUp Research, Certosa di Pontignano, Italy (06/2017) . <i>Bocconi Summer School in Advanced Statistics and Probability</i>, Como, Italy (07/2017) . <i>J. T. Schwartz International School for Scientific Research</i>, Lipari, Italy (07/2013) </td></tr> | SUMMER SCHOOLS AND WORKSHOPS | <p>Summer Schools and workshops</p> <ul style="list-style-type: none"> . StartUp Research, Certosa di Pontignano, Italy (06/2017) . <i>Bocconi Summer School in Advanced Statistics and Probability</i>, Como, Italy (07/2017) . <i>J. T. Schwartz International School for Scientific Research</i>, Lipari, Italy (07/2013) |
| PAST BUSINESS POSITIONS | <p>Intern Groupon, Dublin, Ireland (from 09/2014 to 11/2014)</p> <p>Business analyst Bravofly Rumbo Group, Chiasso, Switzerland (from 10/2013 to 07/2014)</p> <p>Intern Bravofly Rumbo Group, Chiasso, Switzerland (from 05/2013 to 10/2013)</p> <tr> <td>SUMMER SCHOOLS AND WORKSHOPS</td><td> <p>Summer Schools and workshops</p> <ul style="list-style-type: none"> . StartUp Research, Certosa di Pontignano, Italy (06/2017) . <i>Bocconi Summer School in Advanced Statistics and Probability</i>, Como, Italy (07/2017) . <i>J. T. Schwartz International School for Scientific Research</i>, Lipari, Italy (07/2013) </td></tr> | SUMMER SCHOOLS AND WORKSHOPS | <p>Summer Schools and workshops</p> <ul style="list-style-type: none"> . StartUp Research, Certosa di Pontignano, Italy (06/2017) . <i>Bocconi Summer School in Advanced Statistics and Probability</i>, Como, Italy (07/2017) . <i>J. T. Schwartz International School for Scientific Research</i>, Lipari, Italy (07/2013) | | |
| SUMMER SCHOOLS AND WORKSHOPS | <p>Summer Schools and workshops</p> <ul style="list-style-type: none"> . StartUp Research, Certosa di Pontignano, Italy (06/2017) . <i>Bocconi Summer School in Advanced Statistics and Probability</i>, Como, Italy (07/2017) . <i>J. T. Schwartz International School for Scientific Research</i>, 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 July 9, 2021