

## 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	Email: <a href="mailto:tommaso.rigon@unimib.it">tommaso.rigon@unimib.it</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>
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> ) <a href="#">University of Milano-Bicocca, Department of Economics, Management &amp; Statistics (DEMS)</a> , Milan, Italy (from 10/2020 to present)	
PAST ACADEMIC POSITIONS	<b>Postdoctoral Associate</b> <a href="#">Duke University, Department of Statistical Sciences</a> , Durham, USA (from 02/2020 to 09/2020) <b>Research Associate</b> <a href="#">Duke University, Department of Statistical Sciences</a> , Durham, USA (from 10/2019 to 02/2020) <b>Research Affiliate</b> <a href="#">de Castro Statistics Initiative, Collegio Carlo Alberto</a> , Turin, Italy (from 09/2017 to 09/2020)	
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>  [2022] <i>National Scientific Qualification for Associate Professor in Statistics</i> (13/D1)  [2021] <i>Young Talents Award</i> . University of Milano-Bicocca & Accademia Nazionale dei Lincei  [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] *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

## Editorial activity

- [2022 / Present] Associate Editor of Bayesian Analysis

## 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 • Journal of Statistical Planning and Inference • NeurIPS • Plos One • Statistical Methods & Applications • Social Indicators Research • Statistics & Probability Letters

## Positions in Academic Societies

- [2022] Member of the committee for the Savage Award, Theory and Methods
- [2021/24] Social media manager of the International Society for Bayesian Analysis
- [2016/18] Elected member of the board of the [young group \(ySIS\)](#) of the Italian Statistical Society

## Organization of Scientific Events

- [2021] 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
- [2019] 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
- [2019] Member of the organizing committee of [Stats under the Stars 5](#), a hackathon for young Data Scientists, Milan, Italy
- [2017] Member of the local organizing committee of the [10th international workshop on Bayesian inference in stochastic processes \(BISP10\)](#), Milan, Italy

## Positions in Boards and Committees

- Doctoral thesis committee member of the Ph.D. in Statistics: Ching-Lung Hsu [2022], Chiara Galimberti [2023].
- Social media manager of the Department (DEMS), of the University of Milano-Bicocca.

## Students Supervised or Co-supervised

- Current Ph.D. students: Luca Presicce [Ph.D.], Davide Agnoletto [M.Sc., Ph.D.], Riccardo Cogo [Ph.D.], Ching-Lung Hsu [Ph.D.], Alessandro Zito [Ph.D.].
- I have supervised and co-supervised about 10 B.Sc. students in both applied and research-oriented theses on a broad range of topics.

## FUNDING AND GRANTS

**Member of the research group** of the grant FAQC 2021 funded by University of Milano-Bicocca. PI: Bernardo Nipoti.

**Member of the research group** of the LIFEPLAN ERC project, funded by the European Research Council through a 12.6M€ ERC-synergy grant for the years 2020-2026. Global biodiversity research PI: prof. Tomas Roslin. Statistical research PI: prof. David B. Dunson. Corresponding PI: prof. Otso Ovaskainen.

**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

## PUBLICATIONS

### Refereed journals

1. **Rigon, T.**, Herring, A. H. and Dunson, D. B. (2022). A generalized Bayes framework for probabilistic clustering. *Biometrika*, in press
2. Lijoi, A., Prünster, I. and **Rigon, T.** (2022). Finite-dimensional discrete random structures and Bayesian clustering. *Journal of the American Statistical Association (T&M)*, in press
3. **Rigon, T.** (2022). An enriched mixture model for functional clustering. *Applied Stochastic Models in Business and Industry*, in press
4. Zito, A., **Rigon, T.** and Dunson, D. B. (2022). Inferring taxonomic placement from DNA barcoding aiding in discovery of new taxa. *Methods in Ecology & Evolution*, in press
5. Reverberi, C., **Rigon, T.**, Solari, A., Hassan, C., Cherubini, P., GI Genius CADx Study Group and A. Cherubini (2022). Experimental evidence of effective human-AI collaboration in medical decision-making. *Scientific Reports*, 12(14952)
6. Zito, A., **Rigon, T.**, Ovaskainen, O. and Dunson, D. B. (2022). Bayesian modelling of sequential discoveries. *Journal of the American Statistical Association (T&M)*, in press
7. Legramanti, S., **Rigon, T.**, Durante, D. and Dunson, D. B. (2022). Extended stochastic block models with application to criminal networks. *Annals of Applied Statistics*, 16(4), 2369-2395
8. Legramanti, S., **Rigon, T.** and Durante, D. (2022). Bayesian testing for exogenous partition structures in stochastic block models. *Sankhya A: The Indian Journal of Statistics*, 84, 108–126
9. Favaro, S., Panero, F. and **Rigon, T.** (2021). Bayesian nonparametric disclosure risk assessment. *Electronic Journal of Statistics*, 15(2), 5626–5651
10. **Rigon, T.** and Durante, D. (2021). Tractable Bayesian density regression via logit stick-breaking priors. *Journal of Statistical Planning and Inference*, 211, 131–142
11. Lijoi, A., Prünster, I. and **Rigon, T.** (2020). Sampling hierarchies of discrete random structures. *Statistics & Computing*, 30, 1591–1607
12. Lijoi, A., Prünster, I. and **Rigon, T.** (2020). The Pitman–Yor multinomial process for mixture modeling. *Biometrika*, 107(4), 891–906
13. Durante, D. and **Rigon, T.** (2019). Conditionally conjugate mean-field variational Bayes for logistic models. *Statistical Science*, 34(3), 472–485
14. **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
15. 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

16. **Rigon, T.**, Scarpa, B. and Petrone, S. (2022+). Enriched Pitman–Yor processes. Submitted, *arXiv:2003.12200*
17. **Rigon, T.** and E. Aliverti (2022+) Conjugate priors and bias reduction for logistic regression models. Submitted, *arXiv:2202.0873*

## Refereed conference proceedings, publications in monographs, discussions

18. Legramanti S., **Rigon, T.** and Durante, D. (2022). Bayesian clustering of brain regions via extended stochastic block models. In *Book of Short Papers of the Italian Statistical Society* (Balzanella, A., Bini, M., Cavicchia, C., Verde, R.) 2022. ISBN: 9788891932310.
19. Zito, A., **Rigon, T.** and Dunson, D. B. (2021). Modelling of accumulation curves through Weibull survival functions. In *Book of Short Papers of the Italian Statistical Society 2021* (Perna, C., Salvati, N. and Schirripa Spagnolo, F., editors). ISBN: 9788891927361
20. **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**(1) 301–370
21. 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
22. **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
23. 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. and Scarpa, B., editors)

## PRESENTATIONS

### Seminars

[2021] *University of Crete, Greece*

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

### Invited presentations

[2022] *Statistical methods and models for complex data* (invited discussant), Padova, Italy

[2022] *CSDA & EcoSta Workshop on Statistical Data Science (SDS 2022)*, Bologna, Italy

[2022] *5th International Conference on Econometrics and Statistics*, Tokyo, Japan (hybrid)

[2022] *BNP Networking Event*, Nicosia, Cyprus

[2021] *14th International Conference of the ERCIM WG on Computational and Methodological Statistics*, London, UK (hybrid)

[2021] *2021 ISBA world meeting*, virtual

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

[2019] *The IASA 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 IASA 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, USA
- [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.) - A.Y. 2020/21, 2021/22 - 12h
- Statistics 1 (B.Sc.) - A.Y. 2020/21, 2021/22, 2022/23 - 42h
- R for the multivariate statistical analysis (B.Sc.) - A.Y. 2020/21, 2021/22, 2022/23 - 21h

### SDA Bocconi School of Management, Milan, Italy

As lecturer

- Supervised machine learning - A.Y. 2021/22 - 8h

### Bocconi University, Milan, Italy

As teaching assistant

- Data analysis (B.Sc.) - A.Y. 2016/17
- Statistics for economic and business (M.Sc.) - A.Y. 2016/17

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

As lecturer

- Data mining (M.Sc.) - A.Y. 2020/21 - 8h

As teaching assistant

- Introduction to real analysis (B.Sc.) - A.Y. 2014/15
- Advanced statistical inference (M.Sc.) - A.Y. 2014/15

## PAST BUSINESS POSITIONS

### Intern

**Groupon**, Dublin, Ireland (from 09/2014 to 11/2014)

### Business analyst

**Bravofly Rumbo Group**, Chiasso, Switzerland (from 10/2013 to 07/2014)

### Intern

**Bravofly Rumbo Group**, Chiasso, Switzerland (from 05/2013 to 10/2013)

## 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 December 5, 2022