# Antonio Lijoi

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# **Current academic positions**

FEB 2017 –	Professor of Statistics, Bocconi University
SEP 2018 -	Director, PhD in Statistics and Computer Science, Bocconi University
FEB 2017 –	Fellow, Bocconi Institute for Data Science and Analytics (BIDSA)
Jan 2010 –	Member, "de Castro" Statistics Initiative, Collegio Carlo Alberto

# Past academic positions

DEC 2011 – JAN 2017	Professor of Probability and Mathematical Statistics, University of Pavia
Nov 2015 – Sep 2017	Member, PhD Faculty Board in Mathematics, University of Pavia, University of Milano Bicocca and National Institute of High Mathematics (INdAM)
Nov 2011 – Oct 2015	Member, PhD Faculty Board in Mathematics and Statistics, University of Pavia
Mar 2006 – Dec 2011	Associate Professor of Statistics, University of Pavia
Nov 2008 – Nov 2011	Vice-Director, Department of Economics and Quantitative Methods, University of Pavia
Nov 1999 – Feb 2006	Assistant Professor of Statistics, University of Pavia
JAN 2005 – DEC 2012	Research Fellow, Institute of Applied Mathematics and Information Technology, National Research Council (IMATI-CNR)
DEC 1998 – OCT 1999	Post-Doctoral Fellow, Institute for the Applications of Mathematics and Computer Science, National Research Council (IAMI-CNR), Milano
Nov 1995 – Oct 1998	PhD student in Statistics, University of Trento
MAR 1995 – OCT 1995	Pre-doc research associate, IAMI-CNR, Milano

#### **Education**

APR 1999	PhD in Statistics, University of Trento (Italy). Supervisor: Eugenio Regazzini
Nov 1994	Degree in Economics with honours (110/110 cum laude), Bocconi University, Miland

#### Awards and honours

Fellow, Institute of Mathematical Statistics (2018)

Fellow, International Society for Bayesian Analysis (2016)

Invited Visiting Fellow, Mathematisches Forschungsinstitut Oberwolfach, Germany (May 2021), online

Invited Visiting Fellow, Lorentz Center, Leiden, The Netherlands (Jun 2013, Apr 2018)

*Invited Visiting Fellow,* Institute of Computational and Experimental Research in Mathematics (ICERM), Brown University, USA (Sep - Oct 2012)

Joint recipient of a *European Research Council* (ERC) Starting Grant. Research team: Pierpaolo De Blasi, Stefano Favaro, Antonio Lijoi, Igor Prünster (PI), Matteo Ruggiero (Jun 2012)

Invited Visiting Fellow, Collegio Carlo Alberto, Moncalieri, Italy (Sep - Dec 2009)

*Invited Visiting Fellow*, Isaac Newton Institute of Mathematical Sciences, Cambridge, U.K. (Jul – Aug 2007) *Award for Best Graduates* 1994, Bocconi University (1995)

# Editorial activity and professional services

Associate Editor, Bayesian Analysis (2019-)

Associate Editor, Electronic Journal of Statistics (2016-)

Associate Editor, Journal of the American Statistical Association, Theory & Methods (2020-2022)

Associate Editor, Statistics & Probability Letters (2016-2019)

Associate Editor, Statistical Methods and Applications (2010-2013)

Guest Editor, International Journal of Approximate Reasoning, Special Issue on "Bayesian Nonparametrics" (2017)

Guest Editor, Metron, Special Issue on "The statistical legacy of Corrado Gini" (2016)

Chair, Bayesian Nonparametrics Section, International Society for Bayesian Analysis (2015-2016)

Member, Committee on Fellows, International Society of Bayesian Analysis (2023-)

Member, Constitution and Bylaws Committee, International Society of Bayesian Analysis (2020-)

Member, Board of Directors, International Society of Bayesian Analysis (2014-2016)

Associate Editor, Statistical Methods and Applications (2010-2013)

Associate Editor, International Journal of Statistics and Managements Systems (2006-2009)

- Referee ACM Transactions on Modeling and Computer Simulation, Acta Applicandae Mathematicae, AISTATS, The Annals of Statistics, Annales de l'Institute Henri Poincaré, Bayesian Analysis, Bernoulli, Biometrika, Communications in Statistics, Computational Statistics and Data Analysis, Electronic Journal of Statistics, Environmental and Ecological Statistics, Journal of Computational and Graphical Statistics, Journal of Multivariate Analysis, Journal of Statistical Planning and Inference, Journal of the American Statistical Association, Journal of the Royal Statistical Society Series B, Metrika, PloS ONE, Quantitative Finance, Sankhya, Statistica Sinica, Statistical Inference for Stochastic Processes, Statistics and Probability Letters, Stochastic Processes and their Applications, Test.
- Referee for: National Security Agency (Mathematical Sciences Program); The Netherlands Organisation for Scientific Research (NWO); Research Grants Council (Hong Kong); Superior Council of the National Fund for Scientific and Technological Development, FONDECYT (Chile); Research Promotion Foundation (Cyprus), Italian Ministry for University and Scientific Research (MIUR); Italian Agency for the Evaluation of Universities and Research Institutes (ANVUR).
- Doctoral Committees, PhD dissertations in: Sciences (Universidad Nacional Autónoma de México, 2021), Statistics (University of Oxford, 2020), Statistics (University of Kent, Canterbury, 2019), Applied Mathematics (Université Paris-Dauphine, 2013), Statistics (Bocconi University, 2008 and 2013), Statistics and Applied Mathematics (University of Torino, 2010 and 2014), Mathematics and Statistics (University of Pavia, 2011).

#### **Keynote talks at conferences**

- SEP 2023 2<sup>nd</sup> Bergamo Workshop on Econometrics and Statistics, Bergamo, Italy.
- OCT 2022 13th conference on Bayesian Nonparametrics, Puerto Varas, Chile.
- JUN 2022 ISBA 2022 World Meeting, Montreal, Canada.
- OCT 2019 XLV Meeting of the Chilean Statistical Society, Puerto Varas, Chile.
- MAY 2019 Spring Workshop on Computational Mathematics, Statistics and Machine Learning, University of Pavia, Italy.
- SEP 2018 Bayesian learning theory for complex data modeling, Grenoble, France.

#### Invited talks at conferences

- Aug 2023 6th International Conference on Econometrics and Statistics, Waseda University, Tokyo, Japan.
- JUN 2022 International Symposium on Nonparametric Statistics, Paphos, Cyprus.
- MAY 2022 Workshop on Bayesian Nonparametrics, Pohang, South Korea.
- JUL 2021 4<sup>th</sup> International Conference on Econometrics and Statistics (online).
- JUN 2021 ISBA 2020 World Meeting (online).
- AUG 2018 Joint Statistical Meetings, Vancouver, Canada.
- JUN 2018 ISBA 2018 World Meeting, Edinburgh, UK.
- JUN 2018 2<sup>nd</sup> International Conference on Econometrics and Statistics, The City University of Hong Kong, Hong Kong.
- APR 2018 Workshop on *Uncertainty Quantification in Complex, Nonparametric Statistical Models*, Lorentz Center, Leiden, The Netherlands.
- JAN 2018 Workshop on Regulation and Inference in Biological Networks, Bardonecchia, Italy.
- DEC 2017 BIRS Workshop on *Bayesian nonparametric inference: dependence structures and their applications*, Casa Matemática Oaxaca Banff International Research Station, Oaxaca, México.
- SEP 2017 Royal Statistical Society 2017 Annual Conference, Glasgow, UK.
- JUN 2017 11<sup>th</sup> conference on *Bayesian Nonparametrics*, Paris, France.
- AUG 2016 22<sup>nd</sup> International Conference on Computational Statistics COMPSTAT, Oviedo, Spain.
- JUL 2016 Joint Statistical Meetings, Chicago, USA.
- JUN 2016 ISBA 2016 World Meeting, Santa Margherita di Pula, Italy.
- JAN 2016 6<sup>th</sup> IMS-ISBA Joint Meeting *BayesComp at MCMSki V*, Lenzerheide, Switzerland.
- JUL 2014 37<sup>th</sup> Conference in *Stochastic Processes and Applications*, Buenos Aires, Argentina.
- JUL 2014 3<sup>rd</sup> IMS Asia Pacific Rim Meeting, Taipei, Taiwan.
- JUN 2014 47<sup>th</sup> Meeting of the Italian Statistical Society, Cagliari, Italy.
- DEC 2013 6<sup>th</sup> International Conference on *Computing and Statistics ERCIM*, University of London, UK.
- SEP 2013 BIRS Workshop *Random measures and measure-valued processes*, Banff International Research Station, Canada.
- JUN 2013 9<sup>th</sup> Conference on *Bayesian Nonparametrics*, Amsterdam, The Netherlands.
- JUN 2013 8<sup>th</sup> Workshop on *Bayesian Inference in Stochastic Processes*, Milano.
- SEP 2012 Workshop on Bayesian Nonparametrics, Brown University, USA
- AUG 2012 Workshop on Common Concepts in Machine Learning and Statistical Physics, Abdus Salam International Center of Theoretical Physics, Trieste, Italy
- JUN 2012 ISBA 2012 World Meeting, Kyoto, Japan.
- JUN 2012 1st Conference of the *International Society of NonParametric Statistics*, Chalkidiki, Greece.
- DEC 2011 4<sup>th</sup> International Conference on Computing and Statistics ERCIM, University of London, UK.
- SEP 2011 Conference S.Co. 2011 Complex Data Modelling and Computationally Intensive Statistical Methods

- for Estimation and Prediction, Padova, Italy.
- JUL 2011 Bayesian Nonparametric Programme, Veracruz, México.
- AUG 2010 Joint Statistical Meetings, Vancouver, Canada.
- JUN 2010 CRiSM workshop on *Model Uncertainty*, University of Warwick, UK.
- APR 2010 New England Statistics Symposium, Harvard University, Cambridge, USA.
- AUG 2007 Construction and Properties of Bayesian Nonparametric Regression Models, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.
- NOV 2006 IX Simposio de Probabilidad y Procesos Estocásticos, CIMAT (Centro de Investigación en Matemáticas), Guanajuato, México.
- JUL 2006 *Mathematics and its Applications*, Joint meeting of the Italian Mathematical Union and the French Mathematical Society, Torino, Italy.
- JUN 2006 XLIII Scientific Meeting of the Italian Statistical Society, Torino, Italy.
- DEC 2003 Bernoulli Society East Asian and Pacific Regional Conference, Hong Kong University of Science and Technology, Hong Kong.
- JUN 2001 2<sup>nd</sup> Workshop on *Bayesian Inference for Stochastic Processes*, Varenna, Italy.
- JUL 2001 Statistics and Telecommunications. New methodologies for new problems, Rome, Italy.

#### Contributed talks at conferences

- JUL 2008 7<sup>th</sup> World Congress in Probability and Statistics, organized by the Bernoulli Society and the Institute of Mathematical Statistics, Singapore.
- JUL 2005 25<sup>th</sup> European Meeting of Statisticians, organized by the Bernoulli Society, Oslo, Norway.
- JUN 2004 XLII Scientific Meeting of the Italian Statistical Society, Bari, Italy.
- MAY 2003 3<sup>rd</sup> Workshop on *Bayesian Inference for Stochastic Processes*, La Manga, Spain.

#### **Invited Seminars**

Università di Trento (Apr 2022), Queen Mary University London (Apr 2021), Sorbonne Université, Paris (May 2020), Università di Bologna (Apr 2017), Università "La Sapienza" di Roma (Jan 2017), Universidad Carlos III de Madrid (Oct 2015), University of Texas at Austin (May 2015), University of Amsterdam (Apr 2015), Università di Roma "La Sapienza", Rome (Feb 2015), University of Cambridge (Jan 2015), Università Ca' Foscari, Venice (Jan 2015, Sep 2010), Columbia University (Sep 2012), Universidad de Navarra (Apr 2009), University of Oxford (Apr 2007), University of Warwick (Apr 2007 & Jan 2009), University "L.Bocconi" (Dec 2005 & Mar 2004), Politecnico di Milano, Milan (Apr 2004 & Jun 2008), Chalmers University of Technology (Jun 2000), University of Pavia (Feb 1999 & Mar 2001)

#### **Organization of conferences**

#### Scientific committee leadership

Chair of the Scientific Committee, 12th Bayesian Nonparametrics conference, Oxford, UK (Jun 2019)

*Invited Program Co-Chair* (with I. Pruenster), Institute of Mathematical Statistics (IMS), 78<sup>th</sup> IMS Annual Meeting & Joint Statistical Meetings 2015, Seattle USA (Aug 2015)

### Scientific committee and advisory board membership

JUN 2022 *Member* of the *Scientific Committee* of the 3<sup>rd</sup> Italian Conference on Probability and Mathematical Statistics, Bologna, Italy.

- DEC 2019 Member of the Scientific Committee of the XV Latin American Congress of Probability and Mathematical Statistics, Merida-Yucatán, México.
- JUN 2019 *Member* of the *Scientific Committee* of the 2<sup>nd</sup> *Italian Conference on Probability and Mathematical Statistics*, Vietri sul Mare, Italy.
- DEC 2018 Member of the Advisory Board of the 2018 NeuriPS Workshop All of Bayesian Nonparametrics, Montreal, Canada.
- SEP 2018 *Member* of the *Scientific Committee* of the conference on *The Mathematics of Subjective Probability*, Milano, Italy.
- JUN 2017 *Member* of the *Scientific Committee* of the *I<sup>st</sup> Italian Conference on Probability and Mathematical Statistics*, Torino, Italy.
- DEC 2016 *Member* of the *Scientific Committee* of the 9<sup>th</sup> International Conference on Computing & Statistics (ERCIM 2016)
- JUN 2016 Member of the Organizing Committee of Advances in Statistics, Probability and Mathematical Physics A conference in honor of Eugenio Regazzini, Pavia, Italy.
- JUN 2016 *Member* of the *Local Organizing Committee* of the *ISBA 2016 World Meeting*, Santa Margherita di Pula, Italy.
- DEC 2015 *Member* of the *Scientific Programme Committee* of the 8<sup>th</sup> International Conference on Computing & Statistics (ERCIM 2015).
- SEP 2015 *Member* of the *Scientific Committee* of the Conference on *Statistics and Demography: the legacy of Corrado Gini*, organized by the Italian Statistical Society, Treviso, Italy.
- JUN 2015 Member of the Scientific Committee of the 10th Bayesian Nonparametrics Conference, Raleigh, USA.
- DEC 2014 *Member* of the *Scientific Programme Committee* of the 7<sup>th</sup> International Conference on Computing & Statistics (ERCIM 2014).
- DEC 2013 *Member* of the *Scientific Programme Committee* of the 6<sup>th</sup> International Conference on Computing & Statistics (ERCIM 2013).
- DEC 2012 *Member* of the *Scientific Programme Committee* of the5<sup>th</sup> *International Conference on Computing & Statistics* (ERCIM 2012).
- JUN 2011 Member of the Scientific Committee of the 8<sup>th</sup> Bayesian Nonparametrics Workshop, Veracruz, México
- JUN 2010 *Member* of the *Organizing Committee* of the *Carlo Alberto Stochastics Workshop* on "Bayesian Asymptotics", Collegio Carlo Alberto, Moncalieri, Italy.
- JUN 2009 *Member* of the *Scientific Committee* and of the *Local Organizing Committee* of the 7<sup>th</sup> Bayesian Nonparametrics Workshop, Collegio Carlo Alberto, Moncalieri, Italy.
- JAN 2005 Member of the Local Organizing Committee of the "2nd Joint IMS-ISBA MCMSki meeting", Bormio, Italy

# Organization of sessions

- JUN 2024 Organizer of an invited session on "Bayesian nonparametric approaches to model selection and clustering" at the ISBA 2024 World Meeting, Venice, Italy
- JUN 2024 Organizer of an invited session on "Theory and methods in Bayesian Nonparametrics: recent advances" at the International Symposium on Nonparametric Statistics, Braga, Portugal
- AUG 2023 Organizer of an invited session on "Advances in Bayesian theory and Computing" at the 6<sup>th</sup> International Conference on Econometric and Statistics, Tokyo, Japan

- JUN 2022 *Organizer* of two invited sessions on "On the uses of random discrete structures for mixture models and clustering" and on "Flexible dependence structures in Bayesian Nonparametrics" at the *ISBA 2022 World Meeting*, Montreal, Canada
- JUN 2022 Organizer of an invited session on "Advances on Bayesian Nonparametric modeling and computations" at the 5<sup>th</sup> Conference of the International Society for Nonparametric Statistics, Cyprus.
- JUN 2020 *Organizer* of an invited session on "Bayesian asymptotics and approximation" at the *ISBA 2020 World Meeting*, Kunming, China (online)
- JUN 2018 *Organizer* of an invited session on "Discrete probabilistic structures for Bayesian Nonparametrics" at the *ISBA 2018 World Meeting*, Edinburgh, UK.
- JUN 2018 Organizer of an invited session on "New trends and advances in Bayesian Nonparametrics" at the 4<sup>th</sup> Conference of the International Society for Nonparametric Statistics, Salerno, Italy.
- DEC 2016 *Co-organizer* of 3 sessions on "Bayesian semi- and nonparametric modelling" at ERCIM 2016, Seville, Spain.
- JUN 2016 *Organizer* of a Special Topic Session on "Asymptotic properties of Bayesian nonparametric procedures" at the *ISBA 2016 World Meeting*, Santa Margherita di Pula, Italy.
- DEC 2015 *Co-organizer* of 3 sessions on "Bayesian semi- and nonparametric modelling" at ERCIM 2015, London, UK.
- JAN 2014 *Co-organizer* of an invited session on "Computational tools for Bayesian nonparametrics" at the 4<sup>th</sup> *MCMSki Conference*, Chamonix, France.
- DEC 2014 *Co-organizer* of 3 sessions on "Bayesian semi- and nonparametric modelling" at ERCIM 2014, Pisa, Italy.
- DEC 2013 *Co-organizer* of 4 sessions on "Bayesian semi- and nonparametric modelling" at ERCIM 2013, London, UK.
- DEC 2012 *Co-organizer* of 4 sessions on "Bayesian semi- and nonparametric modelling" at ERCIM 2012, Oviedo, Spain.
- JUN 2011 *Co-organizer* of an invited session at the *International Research Conference on Bayesian Learning*, Istanbul, Turkey.
- AUG 2010 Organizer of a Topic Contributed session on "Dependent priors for Bayesian nonparametric inference: applied and methodological advances" at the *Joint Statistical Meetings*, Vancouver, Canada.
- SEP 2009 Organizer of an invited session on "Bayesian Nonparametrics" at the "Conference on Computational Statistics", Politecnico of Milano, Italy

# Visiting periods

Vietnam Institute for Advanced Studies in Mathematics, Ho Chi Minh City, Vietnam (Jul 2023)

Department of Statistics, University of Michigan, Ann Arbor (Apr 2016)

Department of Statistics and Data Science, University of Texas at Austin (Sep 2014, May 2015, Feb 2017)

Department of Statistical Sciences, Columbia University (Sep 2012 & Sep 2013)

Department of Mathematics, University of Texas at Austin (Sep 2013)

Departamento de Métodos Cuantitativos, Universidad de Navarra, Pamplona (Apr 2009)

Department of Statistics, University of Warwick, UK (Apr 2007, Jan 2009)

Departamento de Probabilidad y Estadística, IIMAS-UNAM, México (Nov 2006)

Institute of Mathematics, Statistics and Actuarial Sciences, University of Kent (Dec 2004, Jan 2009, Feb 2016)

Department of Mathematical Sciences, University of Bath, UK (Nov 2002, Nov 2003)

Department of Statistics, Stanford University, California (Jul-Aug 2001)

Department of Mathematical Sciences, Chalmers University of Technology, Göteborg (Jun 2000).

# **Society memberships**

American Statistical Association; Bernoulli Society; Institute of Mathematical Statistics; International Society for Bayesian Analysis; Italian Statistical Society.

#### Research grants

- Principal Investigator, European Union Next Generation EU PRIN project (2023-2025): "Discrete random structures for Bayesian learning and prediction".
- Co-investigator, European Union Next Generation EU PRIN-PNRR Project (2023-2025): "Measuring biodiversity via Bayesian Nonparametrics: estimation, clustering and uncertainty quantification. Principal Investigator: Igor Prünster.
- Co-investigator, European Research Council (ERC) project (2012-2016): *New directions in Bayesian Nonparametrics*. Research team: Pierpaolo De Blasi, Stefano Favaro, Antonio Lijoi, Igor Prünster (PI), Matteo Ruggiero.
- Local unit principal investigator, Department of Economics and Management, University of Pavia, National Research Project 2016-2018 "Modern Bayesian Nonparametric Methods" funded by the Italian Ministry of University and Research (MIUR).
- Local unit principal investigator, Department of Economics and Quantitative Methods, University of Pavia. National Research Project 2008-2010 "Bayesian methods: theoretical developments and novel applications" funded by MIUR.
- Co-investigator. National Research Project 2006-2008 "de Finetti's reconstruction of the Bayes-Laplace paradigm: new methodological developments and applications" funded by MIUR.
- Co-investigator. National Research Project 2003-2005 "Bayesian networks and causal inference: methodology and applications" funded by MIUR.
- Co-investigator. National Research Project 2002-2004 "Bayesian nonparametric methods and their applications" funded by the MIUR.
- Co-investigator. National Research Project 1998-2000 "Statistical models: probabilistic tools and procedures for inference and decisions" funded by MIUR.

# **Research supervision**

- Giuseppe Mignemi, Post-doc, Bocconi University (joint supervision with Igor Prünster), Feb 2024 present
- Junyi Zhang, Post-doc, Bocconi University (joint supervision with Igor Prünster), start Jun 2024
- Claudio Del Sole, PhD student (joint supervision with Igor Prünster). Defence: Jan 2025.
- Filippo Ascolani, PhD student (joint supervision with Igor Prünster). Assistant Professor at Duke University.
- Francesco Gaffi, PhD student (joint supervision with Igor Prünster). Postdoctoral position at the University of Maryland.
- Beatrice Franzolini, PhD student (joint supervision with Igor Prünster). Researcher (Italian RTD-A) at Bocconi University.
- Marta Catalano, PhD student (joint supervision with Igor Prünster). Assistant Professor at Luiss University, Rome, Italy.
- Giovanni Rebaudo, PhD student (joint supervision with Igor Prünster). Assistant Professor at the University of Torino.
- Tommaso Rigon, PhD student (joint supervision with Igor Prünster). Assistant Professor at the University of Milano-Bicocca. Recipient of the 2020 "L.J. Savage Award", by ISBA & ASA
- Federico Camerlenghi, PhD student (joint supervision with Igor Prünster). Recipient of the 2016 "L.J. Savage Award", by ISBA & ASA, and of the 2015 "Best PhD thesis in Statistical Methodology" award by the Italian

- Statistical Society. Associate Professor at the University of Milano-Bicocca.
- Bernardo Nipoti, PhD student. Awarded 2011 "Best PhD thesis in Statistical Methodology" by the Italian Statistical Society. Finalist 2012 "L.J. Savage Award" (Honorable Mention). Associate Professor at the University of Milano-Bicocca.
- Fabrizio Leisen, post-doc. Professor at Kings' College London.

# **Publications in refereed journals**

- 1. Ascolani, F., Franzolini, B., Lijoi, A., Prünster, I. (2024). Nonparametric priors with full-range borrowing of information. *Biometrika*, forthcoming.
- 2. Catalano, M. Lavenant, H., Lijoi, A., Prünster, I. (2024). A Wasserstein index of dependence for random measures. *Journal of the American Statistical Association*, forthcoming.
- 3. Catalano, M., Del Sole, C., Lijoi, A., Prünster, I. (2024). A unified approach to hierarchical random measures. *Sankhya*, forthcoming.
- 4. Lijoi, A., Prünster, I., Rigon, T. (2024). Finite-dimensional discrete random structures and Bayesian clustering. *Journal of the American Statistical Association*, forthcoming.
- 5. Franzolini, B., Lijoi, A., Prünster, I. (2023). Model selection for maternal hypertensive disorders with symmetric hierarchical Dirichlet processes. *The Annals of Applied Statistics* 17, 313-332.
- 6. Ascolani, F., Lijoi, A., Rebaudo, G., Zanella, G. (2023). Clustering consistency with Dirichlet process mixtures. *Biometrika* **110**, 551-558.
- 7. Ascolani, F., Lijoi, A., Ruggiero, M. (2023). Smoothing distributions for conditional Fleming-Viot and Dawson-Watanabe diffusions. *Bernoulli* **29**, 1410-1434.
- 8. Catalano, M., Lijoi, A., Prünster, I., Rigon, T. (2023). Bayesian modeling via discrete nonparametric priors. *Japanese Journal of Statistics and Data Science* **6**, 607-624.
- 9. Lijoi, A., Prünster, I., Rebaudo, G. (2023). Flexible clustering via hidden hierarchical Dirichlet priors. *Scandinavian Journal of Statistics* **50**, 213-234.
- 10. Canale, A., Lijoi, A., Nipoti, B., Prünster, I. (2023). Inner spike and slab Bayesian nonparametric models. *Econometrics and Statistics* **27**, 120-135.
- 11. Catalano, M., De Blasi, P., Lijoi, A., Prünster, I. (2022). Posterior asymptotics for boosted hierarchical Dirichlet process mixtures. *Journal of Machine Learning Research* **23**, 1-23.
- 12. Catalano, M., Lijoi, A., Prünster, I. (2021). Measuring dependence in the Wasserstein distance for Bayesian nonparametric models. *The Annals of Statistics* **49**, 2916-2947.
- 13. Camerlenghi, F., Lijoi, A. and Prünster, I. (2021). Survival analysis via hierarchically dependent mixture hazards. *The Annals of Statistics* **49**, 863-884.
- 14. Arbel, J., Kon Kam King, G., Lijoi, A., Nieto-Barajas, L.E., and Prünster, I (2021). BNPdensity: Bayesian nonparametric mixture modelling in R. *Australian & New Zealand Journal of Statistics* **63**, 542-564.
- 15. Ascolani, F., Lijoi, A. and Ruggiero, M. (2021). Predictive inference with Fleming-Viot driven dependent Dirichlet processes. *Bayesian Analysis* **16**, 371-395.
- 16. Denti, F., Guindani, M., Leisen, F., Lijoi, A., Vannucci, M., Wadsworth, D. (2021). Two-group Poisson-Dirichlet mixtures for multiple testing. *Biometrics* 77, 622-633.
- 17. Catalano, M., Lijoi, A., Prünster, I. (2020). Approximation of Bayesian models for time-to-event data. *Electronic Journal of Statistics*, **14**, 3366-3395.
- 18. Lijoi, A., Prünster, I., Rigon, T. (2020). Sampling hierarchies of discrete random measures. *Statistics and Computing*, **30**, 1591-1607.
- 19. Lijoi, A., Prünster, I., Rigon, T. (2020). The Pitman-Yor multinomial process for mixture modeling. *Biometrika*, **107**, 891-906.

- 20. Graziadei, H., Lijoi, A., Lopes, H.F., Marques F., P.C., Prünster, I. (2020). Prior sensitivity analysis in a semi-parametric integer-valued time series model. *Entropy*, **22**, 69.
- 21. Camerlenghi, F., Dunson, D.B., Lijoi, A., Prünster, I., Rodriguez, A. (2019). Latent nested nonparametric prios. *Bayesian Analysis* (discussion paper), **14**, 1303-1356.
- 22. Camerlenghi, F., Lijoi, A., Orbanz, P., Prünster, I. (2019). Distribution theory for hierarchical processes. *The Annals of Statistics*, **47**, 67-92.
- 23. Camerlenghi, F., Lijoi, A., Prünster, I. (2018). Bayesian nonparametric inference beyond the Gibbs-type framework. *Scandinavian Journal of Statistics*, **45**, 1062-1091.
- 24. Kume, A., Leisen, F., Lijoi, A. (2018). Limiting behavior of the stationary search cost distribution driven by a generalized gamma process. *Electronic Communications in Probability*, **23**, paper no. 11, 10 pp. (online).
- 25. Canale, A., Lijoi, A., Nipoti, B., Prünster, I. (2017). On the Pitman-Yor process with spike and slab base measure. *Biometrika*, **104**, 681-697.
- 26. Camerlenghi, F., Lijoi, A., Prünster, I. (2017). Bayesian prediction with multiple-samples information. *Journal of Multivariate Analysis*, **156**, 18-28.
- 27. Lijoi, A., Muliere, P., Prünster, I., Taddei, F. (2016). Innovation, growth and aggregate volatility from a Bayesian nonparametric perspective. *Electronic Journal of Statistics*, **10**, 2179-2203.
- 28. Favaro, S., Lijoi, A., Nava, C., Nipoti, B., Prünster, I., Teh, Y.W. (2016). On the stick-breaking representation of homogeneous NRMIs. *Bayesian Analysis*, **11**, 697-724.
- 29. Arbel, J., Lijoi, A., Nipoti, B. (2016). Full Bayesian inference with hazard mixture models. *Computational Statistics & Data Analysis*, **93**, 359-372.
- 30. De Blasi, P., Favaro, S., Lijoi, A., Mena, R.H., Prünster, I., Ruggiero, M. (2015). Are Gibbs-type priors the most natural generalization of the Dirichlet process? *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **37**, 212-229.
- 31. Lijoi, A., Nipoti, B. (2014). A class of hazard rate mixtures for combining survival data from different experiments. *Journal of the American Statistical Association*, **109**, 802-814.
- 32. Lijoi, A., Nipoti, B., Prünster, I. (2014). Dependent mixture models: clustering and borrowing information. *Computational Statistics & Data Analysis*, **71**, 417-433.
- 33. Lijoi, A., Nipoti, B., Prünster, I. (2014). Bayesian inference with dependent normalized completely random measures. *Bernoulli*, **20**, 1260-1291.
- 34. Barrios, E.J., Lijoi, A., Nieto-Barajas, L.E., Prünster, I. (2013). Modeling with normalized random measure mixture models. *Statistical Science*, **28**, 313-334.
- 35. De Blasi, P., Lijoi, A., Prünster, I. (2013). An asymptotic analysis of a class of discrete nonparametric priors. *Statistica Sinica*, **23**, 1299-1322.
- 36. Favaro, S., Lijoi, A., Prünster, I. (2013). Conditional formulae for Gibbs-type exchangeable random partitions. *The Annals of Applied Probability*, **23**, 1721-1754.
- 37. Leisen, F., Lijoi, A., Spanò, D. (2013). A vector of Dirichlet processes. *Electronic Journal of Statistics*, 7, 62-90.
- 38. Favaro, S., Lijoi, A., Prünster, I. (2012). A new estimator of the discovery probability. *Biometrics*, **68**, 1188-1196.
- 39. Favaro, S., Lijoi, A., Prünster, I. (2012). Asymptotics for a Bayesian nonparametric estimator of species richness. *Bernoulli*, **18**, 1267-1283.
- 40. Favaro, S., Lijoi, A., Prünster, I. (2012). On the stick-breaking representation of normalized inverse-Gaussian priors. *Biometrika*, **99**, 663-674.
- 41. Lijoi, A., Prünster, I. (2011). A conversation with Eugenio Regazzini. Statistical Science, 26, 647-672.
- 42. Leisen, F. Lijoi, A., Paroissin, C. (2011). Limiting behaviour of the search cost distribution for the move-to-

- front rule in the stable case. Statistics & Probability Letters, 81, 1827-1832.
- 43. Leisen, F., Lijoi, A. (2011). Vectors of two-parameter Poisson-Dirichlet processes. *Journal of Multivariate Analysis*, **102**, 482-496.
- 44. Epifani, I., Lijoi, A. (2010). Nonparametric priors for vectors of survival functions. *Statistica Sinica*, **20**, 1455-1484.
- 45. James, L.F., Lijoi, A., Prünster, I. (2010). On the distribution of means of nonparametric prior processes. *Bernoulli*, **16**, 155-180.
- 46. Lijoi, A., Prünster, I. (2009). Distributional properties of means of random probability measures. *Statistics Surveys*, **3**, 47-95.
- 47. Favaro, S., Mena, R.H., Lijoi, A., Prünster, I. (2009). On Bayesian nonparametric inference in species sampling models. *Journal of the Royal Statistical Society, Series B*, **71**, 993-1008.
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