

# CURRICULUM VITAE - PIERPAOLO DE BLASI

SEPTEMBER 2022

## Education

- 2006 *Ph.D. in Statistics*, Bocconi University, Milano  
2002 *Laurea in Economics*, Bocconi University, Milano

## Academic Positions

- 2015 - *Associate Professor of Statistics*, University of Torino,  
2010 - *Carlo Alberto Affiliate*, Collegio Carlo Alberto  
2010 - *Research Affiliate*, "de Castro" Statistics Initiative  
2010 - 2015 *Assistant Professor of Statistics*, University of Torino  
2006 - 2009 *Postdoctoral Researcher*, University of Torino  
2005 - 2006 *Postdoctoral Researcher*, University of Oslo

## Research interests

Bayesian Nonparametrics, posterior asymptotics, large deviations, cluster analysis, stochastic block models

## Publications

### Statistical journals

- [1] De Blasi, P., Hjort, N.L. (2007). Bayesian survival analysis in proportional hazard models with logistic relative risk. *Scandinavian Journal of Statistics* 34, 229-257.  
[2] De Blasi, P., Hjort, N.L. (2009). The Bernstein-von Mises theorem in semiparametric competing risks models. *Journal of Statistical Planning and Inference* 139, 2316-2328.  
[3] De Blasi, P., Peccati, G., Prünster, I. (2009). Asymptotics for posterior hazards. *The Annals of Statistics* 37, 1906-1945  
[4] De Blasi, P., Favaro, S., Muliere, P. (2010). A class of neutral to the right priors induced by superposition of beta processes. *Journal of Statistical Planning and Inference* 140, 1563-1575.  
[5] De Blasi, P., James, L.F., Lau, J.W. (2010). Bayesian nonparametric estimation and consistency of Mixed Multinomial Logit choice models, *Bernoulli* 16, 679-704.  
[6] De Blasi, P., Walker, S.G. (2013). Bayesian asymptotics with misspecified models. *Statistica Sinica* 23, 169-187.  
[7] De Blasi, P., Lijoi, A., Prünster, I. (2013). An asymptotic analysis of a class of discrete nonparametric priors. *Statistica Sinica* 23, 1299-1322.  
[8] De Blasi, P., Walker, S.G. (2013). Bayesian estimation of the discrepancy with misspecified parametric models. *Bayesian Analysis* 8, 781-800.  
[9] De Blasi, P. (2013). Discussion on article "Bayesian inference with misspecified models" by Stephen G. Walker. *Journal of Statistical Planning and Inference* 143, 1634-1637.  
[10] De Blasi, P., Favaro, S., Lijoi, A., Mena, R., Prünster, I., Ruggiero, M. (2015). Are Gibbs-type priors the most natural generalization of the Dirichlet Process? *IEEE Transaction on Pattern Analysis and Machine Intelligence* 37, 212-229.  
[11] De Blasi, P., Walker, S.G. (2016). Posterior asymptotics in the supremum  $L_1$  norm for conditional density estimation. *Electronic Journal of Statistics* 10, 3219-3246.  
[12] Canale, A., De Blasi, P. (2017). Posterior asymptotics of nonparametric location scale mixtures for multivariate density estimation. *Bernoulli* 23, 379-404.  
[13] Costantini, C., De Blasi, P., Ethier, S.N., Ruggiero, M., Spano', D. (2017). Wright-Fisher construction of the two parameter Poisson-Dirichlet diffusion. *The Annals of Applied Probability* 27, 1923-1950.  
[14] De Blasi, P., Schweder, T. (2018). Confidence distributions from likelihoods by median correction. *Journal of Statistical Planning and Inference* 195, 35-46.  
[15] Arbel, J., De Blasi, P., Prünster, I. (2019). Stochastic approximation to the Pitman-Yor process. *Bayesian Analysis*, 14, 1201-1219.

- [16] De Blasi, P., Martinez F., Mena R. H., Prünster, I. (2020). On the inferential implications of decreasing weight structures in mixture models. *Computational Statistics and Data Analysis* 147, 106940.
- [17] Giordano, M., De Blasi, P., Ruggiero, M. (2020). A reversible allelic partition process and Pitman sampling formula. *Latin American Journal of Probability and Mathematical Statistics* 17, 375-388.
- [18] Chae, M., De Blasi, P., Walker, S.G. (2021). Posterior asymptotics in Wasserstein metrics on the real line. *Electronic Journal of Statistics* 15, 3635-3677.
- [19] De Blasi, P., Mena R. H., Prünster, I. (2021). Asymptotic behavior of the number of distinct values in a sample from the geometric stick-breaking process. *Annals of the Institute of Statistical Mathematics* 74, 143-165.
- [20] 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.

### Medical journals

- [1] Nardone, R., De Blasi, P., Holler, Y., Brigo, F., Golaszewski, S., Frey, V.N., Orioli, A., Trink, E. (2016). Intracortical inhibitory and excitatory circuits in subjects with minimal hepatic encephalopathy: a TMS study. *Metabolic Brain Disease* 31, 1065-1070.
- [2] Nardone, R., De Blasi, P., Holler, Y., Taylor, A.C., Brigo, F., Trink, E. (2015). Effects of theta burst stimulation on referred phantom sensations in patients with spinal cord injury. *Neuroreport*, to appear.
- [3] Duregon, E., Senetta, R., Pittaro, A., Verdun di Catogno, L., Stella, G., De Blasi, P., Zorzetto, M., Mantovani, C., Papotti, M., Cassoni, P. (2015). CAVEOLIN-1 expression in brain metastasis from lung cancer predicts worse outcome and radioresistance, irrespective of tumor histotype. *Oncotarget*, to appear.
- [4] Nardone, R., De Blasi, P., Holler, Y., Christova, M., Tezzon, F., Golaszewski, S., Trink, E., Brigo F. (2013). Repetitive transcranial magnetic stimulation transiently reverses punding in Parkinson's disease: a preliminary study. *Journal of Neural Transmission* 121, 267-274.
- [5] Nardone, R., De Blasi, P., Zuccoli, G., Tezzon, F., Golaszewski, S., Trink, E. (2012). Transient beneficial effects of theta burst stimulation in a patient with phonological agraphia after left supramarginal gyrus infarction. *Brain and Language* 120, 422-426.
- [6] Nardone, R., De Blasi, P., Seidl, M., Caleri, F., Lochner, P., Tezzon, F., Ladurner, G., Golaszewski, S., Trink, E. (2011). Cognitive function and cholinergic transmission in patients with subcortical vascular dementia and microbleeds: a TMS study. *Journal of Neural Transmission* 118(9), 1349-1358.
- [7] Nardone, R., De Blasi, P., Bergmann, J., Caleri, F., Tezzon, F., Ladurner, G., Golaszewski, S., Trink, E. (2011). Theta burst stimulation of dorsolateral prefrontal cortex modulates pathological language switching: A case report. *Neuroscience Letters* 487, 378-382.
- [8] Nardone, R., Bergmann, J., Kronbichler, M., De Blasi, P., Lochner, P., Caleri, F., Tezzon, F., Ladurner, G., Golaszewski, S. (2010). Cholinergic dysfunction and amnesia in patients with Wernicke-Korsakoff syndrome: a TMS study. *Journal of Neural Transmission* 117, 385-391.
- [9] Nardone, R., Bergmann, J., Kronbichler, M., De Blasi, P., Caleri, F., Tezzon, F., Ladurner, G., Golaszewski, S. (2010). Functional involvement of the cerebral cortex following paramedian bithalamic infarction. *Neurocase*, 16, 286-292.
- [10] Ciclamini, D., Tos, P., Monticelli A., Crosio, A., De Blasi, P., Battiston, B. (2019). Flexor digitorum superficialis tenodesis for treatment of flexible swan neck deformity of fingers. Comparison between two surgical techniques to fix the tendon: A pilot study. *Journal of Plastic, Reconstructive & Aesthetic Surgery* 72, 1418-1433.

### Professional Activities

*Associate Editor: Journal of Statistical Planning and Inference (2014 - )*  
*Member of Institute of Mathematical Statistics (IMS),*  
*Member of International Society for Bayesian Analysis (ISBA).*

### Awards

*2011* Visiting Fellow of Residential Research Programme on Bayesian Nonparametrics, Veracruz, Mexico  
*2009* Visiting Fellow of the Carlo Alberto Research Programme in Bayesian Nonparametrics, Collegio Carlo Alberto  
*2007* Visiting Fellow of the Isaac Newton Institute, Cambridge, UK  
*2006* Honourable Mention, Leonard J. Savage Award for Outstanding Doctoral Dissertation, awarded by American Statistical Association and International Society for Bayesian Analysis

## Post Docs

2020 Dr. Marta Catalano (PhD Bocconi University)

2022 Dr. Maria Fernanda Gyl-Leiva (PhD UNAM Mexico)

## Research funding

2017 - 2019 Co-investigator of the National Research Project (PRIN 2015) “Modern Bayesian nonparametric methods”. Igor Prünster (PI)

2012 - 2017 Co-investigator of the European Research Council (ERC) project “New directions in Bayesian Nonparametrics”. Igor Prünster (PI)

2009 – 2012 Investigator of the research project “Stochastic methods for policy”, Regione Piemonte. Igor Prünster (supervisor)

2010 – 2012 Co-investigator of the Carlo Alberto Research Project “New approaches to stochastic modeling in Economics via Bayesian Nonparametrics”. Igor Prünster (PI)

2008 – 2010 Co-investigator of the National Research Project (PRIN 2008) “Bayesian nonparametric inference and limit theorems for dependent data”. Eugenio Regazzini (PI)

2006 – 2008 Co-investigator of the National Research Project (PRIN 2006) “Bayesian nonparametric methods for clustering, survival analysis and predicting the number of species”. Igor Prünster (PI)

2006 Investigator of a research project “Bayesian Nonparametrics”, Fondazione CRT. Igor Prünster (supervisor)

2005 – 2006 Co-investigator of the research project “Integrated statistical analysis based on likelihood and confidence”, Norwegian Research Council. Tore Schweder (PI)

## Invited talks at conferences

2019 *CLAPEM*, Merida, Mexico (Dec 2019), 2018 *JSM*, Vancouver, Canada (Jul 2018); *ISBA 2018 World Meeting*, Edinburgh, UK (Jun 2018); *4rd ISNPS*, Salerno, Italy (Jun 2018); *BNP Workshop at BIRS*, Oaxaca, Mexico (Dec 2017); *8th ERCIM*, University of London, UK (Dec 2015); *7th ERCIM*, Pisa, Italy (Dec 2014); *47th SIS Scientific Meeting*, Cagliari (Jun 2014); *6th ERCIM*, University of London (Dec 2013); *ISBA Regional Meeting 2012*, Varanasi, India (Jan 2013); *Workshop on Bayesian Nonparametrics*, ICERM, Brown University, USA (Sep 2012); *ISBA 2012 World Meeting*, Kyoto, Japan (Jun 2012); *1st ISNPS*, Chalkidiki, Grecia (Jun 2012); *58th ISI World Statistics Congress*, Dublin, Ireland (Aug 2011); *3rd ERCIM*, University of London (2010); *2010 JSM*, Vancouver, Canada (2010); *S.Co. 2009*, Politecnico di Milano (2009); *7th Workshop on Bayesian Nonparametrics*, Collegio Carlo Alberto (Jun 2009); *Workshop on Random Measures an Bayesian Nonparametrics*, University of Paris Ouest (2008); *12th Young Statisticians Meeting*, Piran, Slovenia (2007); *Workshop on Construction and Properties of Bayesian Nonparametric Regression Models*, Cambrdige, UK (2007); *JSM 2007*, Salt Lake City, Utah US (2007); *5th BISP Workshop*, Valencia, Spain (2007); *IX Symposium on Probability and Stochastic Processes*, Guanajato, Mexico (2006); *13th EYSM*, Debrecen, Hungary (2005)

## Visiting positions

Division of Statistics and Scientific Computation, University of Texas at Austin, USA (2013, 2015, 2016)

SMSAS, University of Kent, UK (2010, 2011, 2012)

Laboratoire de Statistique Théorique et Appliquée (LSTA), University of Paris VI, France (2007)

Department of Information and Systems Management, Hong Kong University of Science and Technology Hong Kong (2007)

IIMAS, Universidad Nacional Autonoma de Mexico, Mexico (Nov 2006)

ISDS, Duke University, USA (Mar 2005 - May 2005)

Department of Mathematics, University of Oslo, Norway (Sep 2004 - Dec 2004)

## Teaching and academic activities at the University of Torino

22/23 – *Introduction to Data Science – Statistical Learning and Data Analytics*, Bachelor’s Degree in Economia 3rd year (24hs)

15/16 – *Statistica*, Bachelor’s Degree in Economia 1st year (48hs)

15/16 – *Multivariate Statistical Analysis*, Master in Stochastics and Data Science (48hs)

15/16 – 21/22 *Applied Statistics*, Bachelor’s Degree in Economia 3rd year (24hs)

Committee member of the PhD program in Modeling and Data Science

Member and delegate of the Quality Control Committee, Master in Stochastics and Data Science

**Teaching and academic activities at other Academic institutions**

*07/08 – Mathematics for Economics*, Master in Economics and Allievi Honors Program, Collegio Carlo Alberto

*19/20 – Stochastic Processes*, Master in Data Science and Business Analytics, Bocconi University Milano

Mathematics and Statistics Tutor, Allievi Honors Program, Collegio Carlo Alberto