

Daniele Durante: Curriculum Vitae

CONTACT INFORMATION	Department of Statistical Sciences Università degli Studi di Padova Via Cesare Battisti, 241, 35121 Padova Date of birth: 28/02/1988	✉: durante@stat.unipd.it web: danieledurante2.wix.com/daniele-durante ☎: +39 3402730227
------------------------	---	---

RESEARCH INTERESTS	Network Data, Bayesian Nonparametrics, Tensor Factorization, Stochastic Processes and State Space Models, Models for Latent Variables, Machine Learning.
-----------------------	--

POSITIONS

Current Position

Post-doctoral Research Fellow. Università degli Studi di Padova, Department of Statistical Sciences. Padova, Italy. (01/02/2016 — Today).

Past Academic and Business Positions

Adjunct Professor. Department of Economics and Management, Ca' Foscari University. Venice, Italy. (Academic year 2015/2016).

Visiting Research Scholar. Department of Statistical Sciences, Duke University. Durham, NC, USA. (03/2014 — 02/2015).

Research Assistant at Università degli Studi di Padova (10/2012 — 01/2013) and Ca' Foscari University (05/2011 — 09/2011) for the development of statistical models to analyze demographic and survey data.

Teaching Assistant. Università degli Studi di Padova, Department of Statistical Sciences. Exercises and small lectures for undergraduates. (10/2011—10/2012).

Freelance Researcher providing consulting for medium enterprises in the analysis of customer satisfaction and medical databases. (07/2011—07/2012).

EDUCATION

Università degli Studi di Padova, Padova, Italy

Ph.D. in Statistical Sciences. Department of Statistical Sciences (2013–2016)

- Ph.D. Thesis Topic: *Bayesian nonparametric modeling of network data*
- Advisors: Bruno Scarpa and David B. Dunson

M.S. in Statistical Sciences. Department of Statistical Sciences (2010–2012)

- M.S. Thesis Topic: *Locally adaptive Bayesian covariance regression*
- Advisors: Bruno Scarpa and David B. Dunson

B.S. in Statistics, Economy and Finance. Department of Statistical Sciences (2007–2010)

AWARDS

Academic

- Awarded the *2017 JASA Theory & Methods invited paper*. American Statistical Association. (2017).
- Winner of the *David P. Byar Award*. Biometrics Section of the American Statistical Association. (2015).
- Winner of the *ISBA Lifetime Members Junior Researcher Award*. International Society for Bayesian Analysis. (2014).
- Winner of the *Grand Data Challenge* of the 2014 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction. (2014).
- Winner of the *Laplace Award*. Section on Bayesian Statistical Sciences of the American Statistical Association. (2013).

Outreach

- *My Statistician Friend*. Honorable mention in the video contest sponsored for the International Year of Statistics 2013. (2013).
Link of the video: <https://www.youtube.com/watch?v=yU2qQywUnnU>.
 - *The Statistical Calendar*. Awarded as the best outreach project of Statistics in the multimedia competition: "La statistica e la professione di statistico: idee per la promozione e la diffusione". ISTAT, Rome. (2012).
Link of the project: <http://cal.stat.unipd.it/eng/index.html>.
-

FUNDING

Research Projects

- "Predicting Performance from Network Data". ARO (\$742,129). PI: David Dunson. Contribution and position: Member of the research group, support in writing the proposal and help in conceiving the key ideas.
 - "Bayesian Learning for High-Dimensional Low Sample Size Data". ONR (\$448,913). PI: David Dunson. Contribution and position: Member of the research group.
 - "Bayesian Inference on Brain Network Data". Università degli Studi di Padova (€25,244). PI: Bruno Scarpa. Contribution and position: Member of the research group, support in writing the proposal and help in conceiving the key ideas.
-

PUBLICATIONS

Refereed Journals

1. Durante, D. (2016). A Note on the Multiplicative Gamma Process. *Statistics & Probability Letters*. To appear.
2. Durante, D. and Dunson, D. B. (2016). Bayesian Inference and Testing of Group Differences in Brain Networks. *Bayesian Analysis*. To appear.
3. Durante, D. and Dunson, D. B. (2016). Locally Adaptive Dynamic Networks. *Annals of Applied Statistics*. To appear.
4. Durante, D., Dunson, D. B. and Vogelstein, J. T. (2016). Nonparametric Bayes Modeling of Populations of Networks. *Journal of the American Statistical Association*. To appear with discussion.
5. Durante, D., Paganin, S., Scarpa, B. and Dunson, D. B. (2016). Bayesian Modelling of Networks in Complex Business Intelligence Problems. *Journal of the Royal Statistical Society: Series C*. To appear.
6. Durante, D. and Dunson, D. B. (2014). Nonparametric Bayes Dynamic Modelling of Relational Data. *Biometrika*, 101, 883–898.
7. Durante, D. and Dunson, D. B. (2014). Bayesian Dynamic Financial Networks with Time-Varying Predictors. *Statistics & Probability Letters*, 93, 19–26.
8. Durante, D., Scarpa, B. and Dunson, D. B. (2014). Locally Adaptive Factor Processes for Multivariate Time Series. *Journal of Machine Learning Research*, 15, 1493–1522.
9. Durante, D. and Dunson, D. B. (2014). Bayesian Logistic Gaussian Process Models for Dynamic Networks. *Artificial Intelligence and Statistics (AISTAT)*. *Journal of Machine Learning Research-Workshop & Proceedings*, 33, 194–201.
10. Durante, D., Scarpa, B. and Dunson, D. B. (2013). Locally Adaptive Bayesian Multivariate Time Series. *Advances in Neural Information Processing Systems (NIPS)*, 26, 1664–1672.

Refereed Conference Proceedings and Book Chapters

1. Durante, D. and Dunson, D. B. (2016). [Bayesian Nonparametric Modeling of Dynamic International Relations](#). *Proceedings of the XLVIII conference of the Italian Statistical Society*, 1–13.
2. Durante, D. and Dunson, D. B. (2015). [Bayesian Regression with Network Predictors](#). *Statistics and Demography: the Legacy of Corrado Gini*, 1–7.
3. Durante, D., Canale, A., Guidolin, M., Finos, L. and Scarpa, B., (2015). [A Night of Statistics, Problem Solving, and Teamwork](#). *Proceedings of the XLVIII conference of the Italian Statistical Society*, 1–3.
4. Durante, D., Vidotto, D. and Vettori, S. (2015). [La Bussola del Ricercatore Statistico](#). In Campostrini S., Ghellini, G. and Tuzzi, A. (eds.) *Con senso di misura, riflessi statistici da alcuni allievi di Lorenzo Bernardi*. Cleup, 25–36.
5. Durante, D. (2014). [Analysis of Italian Financial Market via Bayesian Dynamic Covariance Models](#). In Lanzarone, E. and Ieva, F. (eds.) *The contribution of Young Researchers to Bayesian Statistics*. Springer, 63, 171–177.
6. Durante, D. (2013). [My Statistician Friend](#). *La Statistica Vista con gli Occhi degli Studenti*. *Induzioni*, 45, 103–116.
7. Durante, D. (2012). [Qualitative Latent Variables: a Comparison Between SEM and LCA](#). *Quaderni di Statistica*, 14, 97–100.

Manuscripts Under Review

1. Durante, D., Mukherjee, N. and Steorts, R. C. (2016). [Bayesian Learning of Dynamic Multilayer Networks](#). *arXiv:1608.02209*. (Journal of Machine Learning Research, revision requested).
2. Russo, M., Durante, D. and Scarpa, B. (2016). [Bayesian Inference on Group Differences in Multivariate Categorical Data](#). *arXiv:1606.09415*. (Submitted).
3. Wang, L., Durante, D., Jung, R. E. and Dunson, D. B. (2016). [Bayesian Network-Response Regression](#). *arXiv:1606.00921*. (Bioinformatics, revision submitted).
4. Rigon, T., Durante, D. and Torelli, N. (2016). [Bayesian Semiparametric Modelling of Contraceptive Behavior in India via Sequential Logistic Regressions](#). *arXiv:1405.7555*. (Submitted).
5. Durante, D., Daianu, M., Jahanshad, N., Thompson, P. M. and Dunson, D. B. (2015). [Unifying Inference on Brain Network Variations in Neurological Diseases: The Alzheimer's Case](#). *arXiv:1510.05391*. (To be submitted).

PRESENTATIONS

Seminars

- [Bayesian nonparametrics for neurosciences](#). *Department of Decision Sciences, Bocconi University*. Milan, Italy (May 4, 2017) — [Recent advances and open questions in statistical modeling of structural brain networks](#). *Department of Psychology, Università degli Studi di Padova*. Padova, Italy (November 7, 2016) — [Bayesian nonparametric modeling of networks](#). *Department of Statistical Science, Università Cattolica*. Milan, Italy (February 18, 2016) — [Bayesian connectomics](#). *Department of Mathematics and Statistics, Lancaster University*. Lancaster, UK (October 8, 2015) — [Locally Adaptive DYnamic \(LADY\) networks](#). *Department of Statistical Sciences, Università degli Studi di Padova*. Padova, Italy (May 28, 2015).

Invited Presentations

- Bayesian nonparametric modeling of populations of networks. *JSM2017*. Baltimore, USA (August 2, 2017) — Bayes and graphs. *ARS'17*. Naples, Italy (May 16, 2017) — Bayesian modeling of networks in business intelligence. *Isaac Newton Institute*. Cambridge, UK (August 25, 2016) — Bayesian connectomics. *ISBA2016*. Sardinia, Italy (June 18, 2016) — Nonparametric Bayes modeling of dynamic international relations. *SIS2016*. Salerno, Italy (June 8, 2016) — Bayesian regression with network predictors. *SIS2015*. Treviso, Italy (September 10, 2015) — Inference on group differences in brain networks. *JSM2015*. Seattle, USA (August 13, 2015) — The compass for young statisticians. *Una giornata in ricordo di Lorenzo Bernardi*. Padova, Italy (May 15, 2015) — Bayesian inference on network data. *ARS'15*. Capri, Italy (April 29, 2015) — Friends in joy and sorrow: Analysis of the 2007-2012 global financial crisis via Bayesian nonparametric dynamic networks. *SBP 2014*. Washington DC, USA (April 4, 2014).

Contributed Presentations and Poster Presentations

- Nonparametric Bayes dynamic modeling of relational data. *ISBA2014*. Cancun, Mexico (July 15, 2014) — Bayesian logistic Gaussian process models for dynamic networks. *AISTAT2014*. Reykjavik, Iceland (April 22, 2014) — Locally adaptive Bayesian multivariate time series. *JSM2013*. Montreal, Canada (August 6, 2013) — Analysis of Italian financial market via Bayesian covariance regression. *BAYSM2013*. Milan, Italy (June 5, 2013) — Qualitative latent variables: a comparison between SEM and LCA. *Methods and models for latent variables*. Naples, Italy (May 17, 2012).

SERVICE TO PROFESSION

Positions in Academic Societies

J-ISBA chair elect, since January 2017.

Referee Service

Annals of Statistics; Biometrics; Annals of Applied Statistics; Computational Statistics & Data Analysis; AISTAT; SBP Conference; Quaderni di Statistica.

Organization of Scientific Events

- Joint organizer of “*StartUpResearch*”. Siena, 25-27 June, 2017 (Satellite event of the SIS intermediate scientific meeting)
- Joint organizer of “*Stats under the Stars II*”. Salerno, 7-8 June, 2016 (Satellite event of the SIS intermediate scientific meeting)
- Chair of the event “*Stats under the Stars*”. Padova, 8-9 September, 2015 (Satellite event of the SIS intermediate scientific meeting)
- Joint organizer of “*Statistica e Data Science per il Business*”. Padova, 8 September, 2015 (Satellite event of the SIS intermediate scientific meeting)

TEACHING EXPERIENCE

Ca' Foscari University

Department of Economics and Management

- Data Analysis [ET2005]. (Academic year 2015/2016).

Università degli Studi di Padova

Department of Statistical Sciences

- Introduction to network analysis (specialist lectures during the class: Analisi dei Dati e Data Mining). (Academic year 2015/2016).
- Introduction to network analysis (specialist lectures during the class: Analisi dei Dati e Data Mining). (Academic year 2014/2015).

Updated November 25, 2016