

Lucia Paci

Department of Statistical Sciences
Università Cattolica del Sacro Cuore
Largo Gemelli, 1 - 20123 Milan, Italy

RESEARCH INTERESTS

Bayesian inference of graphical modeling, mixture modeling, and spatio-temporal modeling, with applications to ecological and environmental processes, social and life sciences.

CURRENT POSITION

Senior Assistant Professor in Statistics May, 2020 - present
(Ricercatore SECS-S/01, Legge 240/10 tipo B)
Department of Statistical Sciences, Università Cattolica del Sacro Cuore (Milano).

PAST POSITION

Junior Assistant Professor in Statistics December, 2016 - April, 2020
(Ricercatore SECS-S/01, Legge 240/10 tipo A)
Department of Statistical Sciences, Università Cattolica del Sacro Cuore (Milano).

Post-doctoral Research Fellow in Statistics November, 2013 - October, 2016
Department of Statistical Sciences, University of Bologna.

EDUCATION

Ph.D. in Statistics January, 2014
Department of Statistical Science, University of Bologna.

M.Sc. in Statistical and Economic Sciences January, 2010
Faculty of Statistical Science, University of Bologna.

B.Sc. in Statistics, Business and Markets October, 2007
Faculty of Statistical Science, University of Bologna.

TEACHING

Università Cattolica del Sacro Cuore

Master's degree in Data analytics for business

- Vice-Coordinator of the M.Sc. (since 2020)
- *Applied linear models* (AY 2020/21, 2021/22 - 60 hours)
- *Time series and spatial data analysis* (AY 2021/22 - 30 hours)
- Supervisor of Internship, Research assistantship and Field project (AY 2021/22)

Master's degree in Statistical and actuarial sciences

- *Empirical Research* (AY 2020/21, 2019/20 - 36 hours, 2018/19 - 24 hours)
- *Statistical Modelling* (AY 2017/18 - 30 hours; teaching assistant AY 2019/20, 2018/19, 2016/17)
- Supervisor of Internship, Research assistantship and Project (AY 2020/21, 2019/20, 2018/19)

Bachelor's degree in Economics and Management

- *Statistics* (teaching assistant AY 2021/22, 2019/20, 2018/19, 2017/18)

Master in Data Science for Management

- *Preliminary course in Statistics* (AY 2021, 2020, 2019, 2018, 2017 - 14 hours)

University of Bologna

Master's degree in Statistics

- *Bayesian inference* (teaching assistant AY 2016/17, 2015/16, 2013/14, 2012/13, 2011/12)
- *Principles and Methods of Sampling* (teaching assistant AY 2015/16)

Bachelor's degree in Statistics

- *Survey Sampling* (teaching assistant AY 2015/16, 2014/15)
- *Environmental Statistics* (teaching assistant AY 2015/16)
- *R laboratory* (teaching assistant AY 2014/15)

PhD program

- Course *Statistics for spatio-temporal data* (december 2020 - 15 hours), PhD program in Economics and Statistics, University of Milan-Bicocca
- Course *Statistical models for spatio-temporal data* (february 2020 - 14 hours), Phd program in Engineering and applied sciences, University of Bergamo
- Member of the Scientific Committee of the PhD program in Economics and Statistics, University of Milan-Bicocca (since AY 2018/2019 to present)
- Member of the Scientific Committee of the PhD program in Statistics and Mathematics for Finance, University of Milan-Bicocca (AY 2017/18, 2018/19, 2019/20)

RESEARCH EXPERIENCE

Visiting Scholar February, 2016 - April, 2016
Facultad de Economía y Empresa, Universidad de Zaragoza.

Research Fellow October, 2014 - December, 2014
Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, USA.

Visiting Scholar September, 2012 - November, 2012
Department of Statistical Science, Duke University, Durham, NC, USA.

Visiting Scholar January, 2012 - June, 2012
Department of Statistical Science, Duke University, Durham, NC, USA.

Research assistant March, 2010 - July, 2010
Department of Statistical Science, University of Bologna.

SELECTED PUBLICATIONS

Gasperoni F., Luati A., Paci L., D'Innocenzo E., Score driven modeling of spatio-temporal data, *Journal of the American Statistical Association*, in press.

Paci L., Consonni G. (2020) Structure discovery of contemporaneous dependencies in graphical VAR models, *Computational Statistics & Data Analysis*, 144, 106880.

Paci L., Beamonte M. A., Gelfand A. E., Gargallo P., Salvador M. (2020) Spatial hedonic modeling adjusted for preferential sampling, *Journal of the Royal Statistical Society: Series A*, 183, 169-192.

Finazzi F., Paci L. (2020) Kernel-based estimation of individual location densities from smartphone data. *Statistical Modelling*, 6, 617-633.

Finazzi F., Paci L. (2019) Quantifying personal exposure to air pollution from smartphone-based location data, *Biometrics*, 75, 1356-1366.

Paci L., Finazzi F. (2018) Dynamic model-based clustering for spatio-temporal data, *Statistics and Computing*, 28, 359-374.

Paci L., Beamonte M. A., Gelfand A. E., Gargallo P., Salvador M. (2017) Analysis of residential property sales using space-time point patterns, *Spatial Statistics*, 21, 149-165.

Paci L., Gelfand A. E., Beamonte M. A., Rodrigues M., Pérez-Cabello F. (2017) Space-time model for post-fire vegetation recovery. *Stochastic Environmental Research and Risk Assessment*, 31 (1), 171-183.

Paci L., Gelfand A. E., Cocchi D. (2015) Quantifying uncertainty for temperature maps derived from computer models. *Spatial Statistics*, 12, 96-108.

Paci L., Gelfand A. E., Holland D. M. (2013) Spatio-temporal modeling for real-time ozone forecasting. *Spatial Statistics*, 4, 79-93.

Bruno, F., Cocchi, D., Paci L. (2013) A practical approach for assessing the effect of grouping in hierarchical spatio-temporal models. *ASTA Advances in Statistical Analysis*, 97 (2), 93-108.

██████████ August 2021