

Nicolas Bianco

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RESEARCH INTERESTS

Bayesian inference, change-point detection, computational methods, dependent data, dynamic sparsity, high-dimensional statistics, network data, spatial statistics, time series analysis, time-varying parameter, variable selection, variational approximations.

CURRENT POSITION

Postdoctoral Researcher in Statistics

Universitat Pompeu Fabra and Barcelona School of Economics

Barcelona, Spain

25/05/2023 - ongoing

EDUCATION

PhD in Statistics

Dept. of Statistical Sciences, University of Padova

Thesis defense: 2 May 2023

Thesis title: Variational inference for high-dimensional dynamic models

Supervisor: Mauro Bernardi; Co-supervisor: Daniele Bianchi

Padova, Italy

01/10/2019 - 31/12/2022

Master degree in Statistical Sciences

Dept. of Statistical Sciences, University of Padova

Padova, Italy

01/10/2017 - 30/09/2019

Erasmus+

ISEG – Instituto Superior de Economia e Gestão

Lisbon, Portugal

01/02/2017 - 01/07/2017

Bachelor degree in Statistics for Economics and Business

Dept. of Statistical Sciences, University of Padova

Padova, Italy

01/10/2014 - 30/09/2017

VISITING PERIODS

Queen Mary university of London

School of Economics and Finance

London, UK

01/10/2022 – 23/12/2022

RESEARCH

Articles (*authors in alphabetical order*)

- Bernardi M., Bianchi D., **Bianco N.** (2023). Variational inference for large Bayesian vector autoregressions. *Journal of Business and Economic Statistics*. (forthcoming)
- Bernardi M., Bianchi D., **Bianco N.** (2023). Dynamic variable selection in high-dimensional predictive regressions. *arXiv preprint arXiv:2304.07096*.
- Bernardi M., Bianchi D., **Bianco N.** (2022). Smoothing volatility targeting. *arXiv preprint arXiv:2212.07288*.
- Ahmad T., Ahmad I., Arshad I. A., **Bianco N.** (2022). A comprehensive study on the Bayesian modelling of extreme rainfall: A case study from Pakistan. *International Journal of Climatology*, 42(1), 208-224.

In preparation

- Bianco N.**, Cappello L.. Computationally efficient segmentation for non-stationary time series.

CONFERENCES & SEMINARS

Invited talks. 24th International Conference on Computational Statistics; 2022 World meeting of the International Society for Bayesian Analysis; 14th International Conference of the ERCIM WG on Computational and Methodological Statistics (online); 52nd edition of the Scientific Meeting of the Italian Statistical Society.

Contributed talks. Greek Stochastics ν' ; BSE Summer Forum 2023 workshop on Macroeconomics and Policy Evaluation; 10th Italian Congress of Econometrics and Empirical Economics; 12th European Seminar on Bayesian Econometrics; 36th International Workshop on Statistical Modeling; 35th International Workshop on Statistical Modeling (online); 2021 World meeting of the International Society for Bayesian Analysis (online); 13th International Conference of the ERCIM WG on Computational and Methodological Statistics (online).

Invited seminars. Series of seminars on Econometrics at EDHEC Business School, Lille (18/10/2023).

PARTICIPATION IN SCIENTIFIC PROJECTS

1. Complex Graphical Models for Biological Network Science (COMBINERS).

Funding: Ministry of University and Research – PRIN Call 2022

PI: Francesco Stingo (University of Florence)

I am participating as a former member of the University of Padova research unit.

TEACHING EXPERIENCE

Course instructor <i>Barcelona School of Economics</i>	Barcelona, Spain 05-06/03/2024
Course: Introduction to Python and R programming for Data Science (professional intensive course)	
Teaching assistant <i>Barcelona School of Economics</i>	Barcelona, Spain 16/10/2023 - 22/12/2023
Course: Foundations of Data Science (master in economics and finance)	
Academic tutor <i>Dept. of Statistical Sciences, University of Padova</i>	Padova, Italy 01/10/2018 - 15/06/2019
Courses: Calculus (bachelor degree), Statistics (advanced course, master degree)	

SUPERVISING EXPERIENCE

1. Master thesis, Data Science Methodology course, Barcelona School of Economics.
Title: *Bayesian graphical modeling with external network information for optimal portfolio construction.*
Students: Harry Morley, Ross Fleming, Rafael Gallegos Cortés.
Other supervisor: Jack Jewson (Monash University)
2. Master thesis in Business Analytics, Dept. of Statistical Sciences, University of Bologna.
Title: *Portfolio selection: graphical modeling with external network data and Student's-t distribution for efficient asset allocation.*
Student: Eugenia Massa.
Other supervisors: Simone Tiberi (University of Bologna), Jack Jewson (Monash University)
3. Master thesis in Statistics, Dept. of Statistical Sciences, University of Padova.
Title: *Variable selection for Poisson regression model via mean field variational Bayes.*
Student: Daniele Cugnigni.
Other supervisor: Mauro Bernardi (University of Padova)

AWARDS AND GRANTS

Best poster award <i>Conference: Statistical Methods and Models for Complex Data</i>	Padova, Italy 23/09/2022
Student travel award <i>Conference: Meeting of the International Society for Bayesian Analysis (ISBA)</i>	Montreal, Canada 26/06/2022
Prize Oliviero Lessi <i>Best Master Thesis in Mathematical Statistics</i>	Rome, Italy 24/06/2020
Best project <i>Stats Under the Stars - V edition</i>	Milan, Italy 18/06/2019
Best project <i>Hackathon on speech recognition - Unox S.p.A</i>	Padova, Italy 25/05/2018

SERVICE AT THE DEPARTMENT

PhD students representative <i>Dept. of Statistical Sciences, University of Padova</i>	Padova, Italy 01/10/2019 - 31/12/2022
National Program for Scientific Degrees (PNLS) tutor <i>Dept. of Statistical Sciences, University of Padova</i>	Padova, Italy 01/10/2017 - 30/09/2018

ORGANISATION OF DISSEMINATION ACTIVITIES

Venetonight - Researchers' night <i>Sponsored by the University of Padova</i>	Padova, Italy 30/09/2022
Hackathon "HackTheGene" <i>Sponsored by the Dept. of Statistical Sciences, University of Padova</i>	Padova, Italy 17/09/2022
StatisticAll <i>Sponsored by the Italian Statistical Society (SIS) and Italian National Statistics institute (ISTAT)</i>	Treviso, Italy 2015 - 2017

OTHER

- **Technologies:** R/Rstudio (advanced), C++ (advanced), LaTeX (advanced), Python (intermediate), Matlab (intermediate), Julia (basic)
- **Languages:** Italian (native); English (fluent); Spanish (intermediate); Portuguese (basic)