Martina Narcisi

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Location and Date of Birth: San Benedetto del Tronto, 21/02/1994
Office: Viale Quirico Filopanti, 9 (BO)

Research interests

Linear regression models focused on the problem of confounding, Bayesian spatio-temporal hierarchical models with a focus on the identifiability problem, Gaussian latent models, sampling methods and techniques with application to the epidemiological and environmental field, disease mapping and analysis of volleyball data with the application of random partition models, focusing on the problem of players' evaluation. Statistical matching and small area estimation.

Research activities

Research Fellow	Bologna, ITA
Department of Statistical Sciences "Paolo Fortunati"	February 2024–Present
Department of Biological, Geological, and Environmental Sciences	February 2023–January 2024

Education

Alma Mater Studiorum, University of Bologna	Bologna, ITA
Ph.D. in Statistical Sciences, Supervisor: Prof. Carlo Trivisano	November 2019–June 2023

- Thesis: "On the effect of confounding in linear regression models: an approach based on the theory of quadratic forms"

Alma Mater Studiorum, University of Bologna	Rimini, ITA
M.S. in Statistical, Financial and Actuarial Sciences, Supervisor: Prof. Fedele Greco	
Final mark: 110 cum laude	September 2017–September 2019

- Thesis: "Stima dei parametri delle distribuzioni di perdita nella gestione del rischio assicurativo"

University of Camerino	Camerino, ITA
B.S. in Mathematics and Applications, Supervisor: Prof. Carlo Lucheroni	October 2013–February 2017

- Thesis: "Matematica delle assicurazioni sulla vita"

Visiting Periods

Brigham Young University	Provo, Utah (US)
Visiting Scholar. Tutor: Prof. Garritt Page	March 2023–June 2023

Academic Teaching Activities

Crash Course at University of Bologna, Department of Economics   September 2023
Mathematics (Economics and Business)

Teaching Assistant at University of Bologna, Department of Economics   2023–2024
Metodi statistici per le applicazioni aziendali (Economia dell'impresa)

Teaching Assistant at University of Bologna, Department of Statistical Sciences   2020–2024
Statistica, Metodi di campionamento, Inferenza statistica (Statistica, finanza ed assicurazioni–CLASFA),
Statistica avanzata (Scienze statistiche, finanziarie ed attuariali–SSFA)

Teaching Assistant at University of Bologna, Department of Statistical Sciences   2020–2021
Algebra (Statistical Sciences–CLASS)

Talks in Conferences and Workshops as Speaker

F. Greco, **M. Narcisi**. *On the effect of confounding in linear regression models: an approach based on the theory of quadratic forms.* Seminar 2023 (**Invited**) at Brigham Young University, Provo, Utah.

F. Greco, **M. Narcisi**. *On the effect of spatial confounding: an approach based on the theory of quadratic forms.* GRASPA-SIS biennal conference, 10–11 July 2023 (**Invited**) at University of Palermo, Italy.

Pubblications

M. Narcisi. On the effect of confounding in linear regression models: an approach based on the theory of quadratic forms. *PhD Dissertation Thesis.* DOI: https://doi.org/10.6092/unibo/amsdottorato/11001

Contributions in Proceedings

F. Greco, **M. Narcisi**. On the effect of spatial confounding: an approach based on the theory of quadratic forms. *Proceedings of the GRASPA 2023 Conference (Palermo, 10-11 July 2023), pp.86–91. ISBN: 9791221033892*

Submitted Papers

M. Narcisi, F. Greco, C. Trivisano. On the effect of confounding in linear regression models: an approach based on the theory of quadratic forms.

Experience

Alma Mater Studiorum, University of Bologna   Rimini, ITA
Degree programme tutor for M.S. in Statistical, Financial and Actuarial Sciences   2017–2019

Scholarships and Awards

Merit-based scholarship   2013–2016
Department of Mathematics, University of Camerino

Institutional Activities

Elected PhD Students representative in the PhD Board   2020–2023
Department of Statistical Sciences "Paolo Fortunati", University of Bologna

Skills

Software and Programming: Microsoft Office, LaTeX, R, C++, MATLAB

Languages

English: C1 level
Spanish: B1 level