Elena Bortolato

CURRICULUM VITAE

Contact Information

University of Padova
Department of Statistical Sciences
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Current Position

Since October 2020; (expected completion: February 2024)
PhD Student in Statistical Sciences, University of Padova.
Supervisor: prof. Laura Ventura, University of Padova
Co-supervisor: prof. Pierre E. Jacob, ESSEC Business School

Research interests

- Likelihood free inference
- MCMC on manifolds
- Model mis-specification
- Bayesian Computation
- Objective Bayesian approach

Education

October 2018 – September 2020
Master degree (*Laurea Magistrale*) in Statistical Sciences
University of Padova, Department of Statistical Sciences
Title of dissertation: "Bias reduction in the equicorrelated multivariate normal"
Supervisor: Prof. Euloge Clovis Kenne Pagui
Final mark: 110/110 cum laude

October 2015 – July 2018
Bachelor degree (*Laurea Triennale*) in Statistics for Technology and Sciences
University of Padova, Department of Statistical Sciences
Title of dissertation: "Models and methods for music analysis"
Supervisor: Prof. Alessandra Rosalba Brazzale
Final mark: 106/110.

Work experience

August 2019 – September 2019
ACAM MOCOTO' (Florianopolis - Brazil).
Social Media analyst (AIESEC volunteer)

February 2019 – July 2019
University of Padova

Research Fellow ROI-MOB: Measuring return on investment from EU VET mobility
(2016-1-IT01-KA202-005396)

Awards and Scholarship

2023 ISBA/BayesComp Travel Grant

2022 Laboratoires Junior financing (PhD student teams prize, University of Lyon, University Jeanne Monnet)

2021 Best thesis in Mathematical Statistics in memory of professor Oliviero Lessi - Società Italiana di Statistica (SIS).

2020 First Prize *Laboratorio con le aziende* (Business Lab)- Department of Statistical sciences University of Padua and ASPIAG.

Computer skills (Statistical software)

- R, Rstudio
- Python (Pandas, NumPy, Scikitlearn, SciPy)
- SAS
- Julia

Language skills

Italian: native - English: fluent - Portuguese: basic - French: basic

Publications

Articles in journals

Scarpazza, C., et al. Idiopathic and acquired pedophilia as two distinct disorders: an insight from neuroimaging. Brain Imaging and Behavior (2021)

Biz, C., Cerchiaro, M., Belluzzi, E.; Bortolato, E., Rossin, A., Berizzi, A., Ruggieri, P. (2022) Treatment of Distal Radius Fractures with Bridging External Fixator with Optional Percutaneous K-Wires: What Are the Right Indications for Patient Age, Gender, Dominant Limb and Injury Pattern? J. Pers. Med. 2022, 12, 1532.

Articles in conference book of papers

Bortolato, E., Ventura, L. Confidence distributions and fusion inference for intractable likelihoods, SIS Book of short papers (2022)

Bortolato, E., Kenne Pagui, E.C., Bias reduction in the equicorrelated multivaraite normal, SIS Book of short papers (2021)

Bortolato, E. and Fabbris, L., Vivian, M. Quantity and mood of final open-ended comments on an Erasmus+ VET mobility questionnaire, ASA Book of short papers (2019)

Preprints/Working papers

Bortolato, E., Jacob, P.E., Ryder, R.J. Convergence of MCMC on manifolds (2022)

Bortolato, E., Ventura, L. On approximate robust confidence distributions (2022) *under review* http://arxiv.org/abs/2212.09552

Bortolato, E., Kenne Pagui, E.C. Bias reduction and robustness for gaussian longitudinal data analysis (2022) *under review*

Poster

Bortolato, E., Alternatives for approximation in likelihood free inference: Box-ABC, ISBA 2022 world meeting, Montreal, CA, July 2022

Bortolato, E., Jacob, P. E., Ryder, R.J. MCMC convergence on manifolds through coupling techniques, Statistical methods and models for complex data, Padova September 2022

Scarpazza, C., Masiero, L., Bortolato, E. et al. Investigating the Brain Network consistently impaired in acquired pedophilia? IBRO World Congress 2019, Daegu, South Korea, September 21, 2019.

Conference presentations

Bortolato, E., Jacob, P. E., Ryder, R. J. Convergence of MCMC algorithms on manifolds through coupling techniques, Levi, Finand, March 2023 (*contributed*)

Bortolato, E., Ventura, L. Box-ABC for likelihood-free inference, CMStatsistics, London, UK, 17-19 December 2022 (*invited*)

Ventura, L., Bortolato, E., Robust inference for non-inferiority studies, CMStatsistics, London, UK, 17-19 December 2022 (*contributed*)

Bortolato, E., Ventura, L. Confidence distributions and fusion inference for intractable likelihoods, Fusion workshop, Marseille , FR, October 2022 (*invited*)

Bortolato, E., Ventura, L. Confidence distributions and fusion inference for intractable likelihoods, Italian Statistic Society meeting, Caserta, IT, June 2022 (*contributed*)

Bortolato, E. Alternatives for approximation in Likelihood free inference., CEREMADE winter school 2022, Saint-Pierre-Canivet, France. February 2022

Bortolato, E., Kenne Pagui, E. C. Bias reduction in the equicorrelated multivariate normal, 50th meeting of the Italian Statistical Society, Pisa, Italy, June 25, 2021 (*contributed*)

Scarpazza, C., Masiero, L., Bortolato, E. et al. Different Neural Substrate in Developmental

and Acquired Pedophilia: Preliminary Results, 12th International Scientific Conference on Neuroethics, May 13, 2021

Teaching experience

Tutoring
Calculus (Statistics for Technology and Sciences, Statistics for Business and Economy, BSc courses)
Statistics (Statistical Sciences, MSc course)
University of Padova
October 2019 – June 2020

Adjunct lecturer
Business Statistics and introduction to Data Analytics (Grande Ecole - Master in Management)
ESSEC Business School
January – March 2023

Visiting

October 2021 – June 2023
ESSEC Business School
Université Paris-Dauphine

Referee activity

Bayesian Analysis

Memberships

ISBA (International Society of Bayesian Analysis), SIS (Società Italiana di Statistica), IMS (International Mathematical Society)