Federica Stolf

University of Padova Department of Statistical Sciences
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Current position

PhD student in Statistics (October 2021 - ongoing)
Department of Statistical Science, University of Padova
Supervisor: Prof. Antonio Canale; Co-supervisor: Prof. David Dunson.

Education

Master's Degree in Statistics (10/2019 – 09/2021)
Department of Statistical Science, University of Padova
Thesis title: "Bayesian hierarchical models for spatial extreme values"
Supervisor: Prof. Antonio Canale
Final mark: 110/110 *cum laude*

Bachelor's Degree in Statistics for Technology and Sciences (10/2016–07/2019)
Department of Statistical Science, University of Padova
Thesis title: "Quantile regression for solar power forecasting"
Supervisor: Prof. Antonio Canale
Final mark: 110/110 *cum laude*

Visiting Periods

Duke University, Department of Statistical Sciences, Durham, USA (03/2023 - 09/2024)
Supervisor: Prof. David Dunson

Work experience

Research support activities (03/2021-05/2021)
Department of Statistical Science, University of Padova
Implementation in R of algorithms for classification and regression with advanced non parametric models
Supervisor: Prof. Bruno Scarpa

Data scientist intern at Horsa, Vicenza (09/2019 – 12/2019)

Ski instructor at Intersport Bernik, Kranjska Gora, Slovenia (12/2016 - 2/2020)

Research interests

- Bayesian Methods and Computation
- Latent Factor Models
- Bayesian Nonparametrics

Publications & working papers

- Stolf, F. and Dunson, D. (2024+). Allowing growing dimensional binary outcomes via the multivariate probit Indian buffet process. Submitted. [ArXiv]
- Stolf, F. and Canale, A. (2023). A hierarchical Bayesian non-asymptotic extreme value model for spatial data. *Environmetrics*, e2806. [Link]
- Stolf, F. and Canale, A. (2022). Bayesian spatial modeling of extreme precipitation, in *Proceedings of the 36th International Workshop on Statistical Modelling*, ISBN: 9788855113090.

Awards

- Young researcher financial support, 4th Italian Meeting on Probability and Mathematical Statistics (2024)
- Best poster award at Autumn school in Bayesian Statistics 2023, CIRM (France)
- Young researcher travel award, ISBA 2022
- Mille e una Lode Award 2018/2019, scholarship awarded to the best 1000 students of the University of Padova

Conference presentations

- Contributed talk: "Dependent infinite latent feature models"; *BAYSM 2023*, online (Nov-2023).
- Poster presentation: "Dependent infinite latent feature models"; *Autumn school in Bayesian Statistics 2023*, CIRM, France (Oct-2023).
- Poster presentation: "Bayesian spatial modeling of extreme precipitation"; *IWSM 2022*, Trieste, Italy (Jul-2022).
- Poster presentation: "A hierarchical Bayesian non-asymptotic extreme value model for spatial data"; *ISBA 2022*, Montreal, Canada (Jun-2022).

Teaching experience

(10/2019 – 06/2021) Tutor: lectures and exercises for the courses of Statistics (Advanced) and Mathematical Analysis 1. University of Padova.

Service

- **Membership**: ISBA, jISBA.
- **Reviewer for:** Computational Statistics and Data Analysis.
- **Organizer** of *Explain like I'm an Undergrad*, series of weekly seminars for PhD students, post-docs, and young researchers in the statistics department at University of Padova (Sep 2023 - ongoing).

Computer skills

- Languages: R (advanced), Python (intermediate);
- Other: Latex (advanced), GitHub (basic).

Languages

Italian (native); English (fluent)

Data Hackathons

17/09/2022: First prize winner at HackTheGene, Padova.