Andrea Gilardi | Curriculum Vitae

– Olginate (LC), Italy

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Summary

I am a PhD Student in Statistics and Mathematical Finance at the University of Milan - Bicocca. My main research interests are spatial and spatiotemporal models on road networks.

Education

University of Milan - Bicocca
PhD Student in Statistics and Mathematical Finance   *NOV.17–Present*

University of Milan - Bicocca
Master Degree in Statistics   *SET.15–OTT.17*
Final mark: 110/110 e lode (Magna cum laude)

Università of Milan - Bicocca
Bachelor Degree in Statistics   *SET.12–SET.15*
Final mark: 110/110 e lode (Magna cum laude)

Teaching

Teaching Assistant: Introduction to Statistical Inference, University of Milan - Bicocca   *SEP.20–FEB.21*
Teaching Assistant: R for Road Safety. Program and Materials.   *OCT.19–OCT.19*
Teaching Assistant: Introduction to Statistical Inference, University of Milan - Bicocca   *SEP.19–FEB.20*
Tutor: Introduction to R, University of Milan - Bicocca. Materials.   *MAR.19–APR.19*
Tutor: Introduction to *tidyverse* and *plumber*, University of Turin - Master in Data Science *OCT.18–OCT.18*
Teaching Assistant: Introduction to Statistical Inference, University of Milan - Bicocca   *SEP.18–FEB.19*
Teaching Assistant: Statistica Economica M., University of Milan - Bicocca   *APR.18–JUL.18*
Teaching Assistant: Introduction to Statistical Inference, University of Milan - Bicocca   *SEP.17–SEP.18*
Teaching Assistant: Informatics, University of Milan - Bicocca   *MAY.17–SEP.17*

Working Experience

Catholic University of the Sacred Heart, Milan   **Milan (Italy)**
Consultant   *OCT.20–NOV.20*
I worked on a project named *Black Box and Big Data per la stima e la previsione dei sinistri* under the supervision of Prof. Diego Zappa.

GR & Partner S.A.S   **Milan (Italy)**
Consultant   *APR.18–OCT.18*
I developed a User Interface using R and Shiny.

Master Degree Thesis

Title: *Previsione spaziotemporale per gli interventi in emergenza delle ambulanze nel comune di Milano*

Supervisor: Prof. Riccardo Borgoni.

Summary: We developed a spatiotemporal model to predict the distribution of the emeregency medical interventions in Milan.

Visiting Periods

- I spent four months in Castellón de la Plana (ES), from February 2020 to June 2020, working with Prof. Jorge Mateu on statistical models for events on road networks.
- I stayed in Leeds (UK) for three months, from September 2019 to November 2019, working with Prof. Robin Lovelace on R packages and classes for road networks. Final presentation.

Publications

1. **Gilardi, A.**, Mateu, J., Borgoni, R., Lovelace, R., Multivariate hierarchical analysis of car crashes data considering a spatial network lattice. Under review. Preprint.
2. **Gilardi, A.**, Lovelace, R., Padgham, M. Street Networks in R. Under review. Preprint.
3. Borgoni, R., **Gilardi, A.**, & Zappa, D. (2020). Assessing the Risk of Car Crashes in Road Networks. Social Indicators Research, 1-19.
4. **Gilardi, A.**, Borgoni, R., & Zappa, D. (2020). Assessing the Risk of Car Accidents in Road Networks. In NESPUTT 2019-New Economic & Statistical Perspectives on Urban & Territorial Themes.
5. **Andrea, G.**, Riccardo, B., & Zappa, D. (2019). Spatial Logistic Regression for Events Lying on a Network: Car Crashes in Milan. In Smart Statistics for smart applications (pp. 1165-1170). Pearson Italia.
6. **Gilardi, A**., Borgoni, R., Pagliosa, A., & Bonora, R. (2018). Spatiotemporal Prevision for Emergency Medical System Events in Milan. In Scientific meeting of the Italian Statistical Society.

Conferences

- OpenGeoHub 2020, Wageningen (Netherlands)
- e-RUM 2020: European R User Meeting. Online event.
- Nesputt 2019: New Economic & Statistical Perspective, Milan (Italy).
- UseR! 2019 Meeting, 9-12 July 2019, Tolouse (France).
- 50th Meeting of the Italian Statistical Society, 18-21 June 2019, Milan (Italy).
- Statalk, March 29th, 2019, University of Padova (Italy).
- 49th Meeting of the Italian Statistical Society, 20-22 June 2018, Palermo (Italy).
- Statalk, November 17th, 2017, University of Padova (Italy).

Organized Conferences

- I organized an online Webinar and Hackathon related to the R package `sfnetworks` as official satellite events of the e-Rum 2020 Conference. Materials, slides and recordings.
- I was a member of the Local Organizing Committee of Nesputt 2019: New Economic & Statistical Perspective, Milan (Italy).

Grants

- Tidy Spatial Networks in R funded by the R Consortium. 9000$.

Awards

- Scolarship for the OpenGeoHub 2020 - Summer School. Project: *plotKML functionality to support sf and stars objects*. Final presentation.
- SIS award for the best poster at the SIS-2019 conference.
- Young-SIS award for the best poster at the SIS-2018 conference.

Software

I am a proficient R user, with a particular interest in the `r-spatial` world and the tidyverse environment. I am the author of two R packages, namely osmextract (currently under review by rOpenSci foundation) and sfnetworks. I contributed to several R packages like `ggplot2`, `recipes`, `sf`, `stplanr` and `osmdata`. I attended the *Tidyverse Developer Day* in Tolouse during the UseR! 2019 conference.

I have basic knowledge of SAS, Python and STATA, and LaTeX.

Badges

SAS: SAS Certified Base Programmer for SAS 9
SAS: SAS Certified Predictive Modeler Using SAS Enterprise Miner 7

Additional Information

Associazioni: Volunteer at Volontari del Soccorso di Calolziocorte from July 2016

Notes

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".