

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.

University of Milan - Bicocca

Milan (Italy)

Collaboration with the Department of Economics, Management and Statistics

JUN.20–OCT.20

Prepare and organize the MSc admission tests.

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 emergency 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 Doct. 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. Borgoni, R., **Gilardi, A.**, & Zappa, D. (2020). Spatial modelling of driver crash risk using georeferenced data. In NESPUTT 2019-New Economic & Statistical Perspectives on Urban & Territorial Themes.
5. **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.
6. **Gilardi, A.**, Borgoni, R., & 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.
7. **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.

Summer School and Workshops

- [sfnetworks](#) hackathon and webinar, Online event, June 2020.
- Robust Statistics : Foundations and Recent Developments, University of Milano-Bicocca, March 2019
- CLADAG, Summer School on Clustering and Classification, University of Catania - May 2018

Conferences

- OpenGeoHub 2020, 16-23 August 2020, Wageningen (Netherlands)
- e-Rum 2020: European R User Meeting, 17-20 June 2020, Online event.
- Nesputt 2019: New Economic & Statistical Perspective, 21-22 November 2019, Milan (Italy).
- UseR! 2019 Meeting, 9-12 July 2019, Toulouse (France).
- 50th Meeting of the Italian Statistical Society, 18-21 June 2019, Milan (Italy).
- Stataalk, March 29th, 2019, University of Bologna (Italy).
- 49th Meeting of the Italian Statistical Society, 20-22 June 2018, Palermo (Italy).
- Stataalk, 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

- Scholarship 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 Toulouse during the UseR! 2019 conference.

I have basic knowledge of SAS, Python and STATA, and L^AT_EX.

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".