

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)

Working Experience

University of Leeds

Teaching assistant

OCT.19–OCT.19

I helped Dr. Robin Lovelace teaching a course on using R for Road Safety. [Materials](#)

University of Milan - Bicocca

Teaching assistant

SEP.19–FEB.20

Course: Statistica II - Introduction to Statistical Inference.

University of Milan - Bicocca

Tutor

MAR.19–APR.19

I taught a short introductory course (20h) related to the R software. [Materials](#).

University of Turin - Master in Data Science

Tutor

OCT.18–OCT.18

I taught a short introductory lesson (4h) related to the R packages *tidyverse* and *plumber*.

University of Milan - Bicocca

Teaching assistant

SEP.18–FEB.19

Course: Statistica II - Introduction to Statistical Inference.

GR & Partner S.A.S

Consultant

Milan (Italy)
APR.18–OCT.18

I developed a User Interface using R and Shiny.

University of Milan - Bicocca

Teaching assistant

APR.18–JUL.18

Course: Statistica Economica M.

University of Milan - Bicocca

Teaching assistant

SEP.17–SEP.18

Course: Statistica II - Introduction to Statistical Inference.

University of Milan - Bicocca

Teaching assistant

MAY.17–SEP.17

Course: Informatica - Informatics.

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 Prof. Robin Lovelace on R packages and classes for road networks. Final presentation.

Publications

1. **Gilardi, A.**, Lovelace, R., Padgham, M. Street Networks in R. Under review.
2. Borgoni, R., **Gilardi, A.**, & Zappa, D. (2020). Assessing the Risk of Car Crashes in Road Networks. Social Indicators Research, 1-19.
3. **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.
4. **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.
5. **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

- 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).
- Stataalk, March 29th, 2019, University of Padova (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 on the R package [sfnetworks](#) as official satellite events of the e-Rum 2020 Conference.
- I was a member of the Local Organizing Committee of [Nesputt 2019: New Economic & Statistical Perspective](#), Milan (Italy).

Awards

- 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` packages and the tidyverse environment. I attended the *Tidyverse Developer Day* in Tolouse during the UseR! 2019 conference. I am the author of one R package (not on CRAN at the moment) called [osmextract](#). I contributed to several R packages like *ggplot2*, *recipes*, *sf*, *stplanr* and *osmdata*. I have basic knowledge of SAS, Python and STATA. I can use \LaTeX for writing scientific documents.

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".