

# Andrea Gilardi | Curriculum Vitae

– Olginate (LC), Italy

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## Summary

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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

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### 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

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### 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 Inferential Statistics.

### 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 Inferential Statistics.

### 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 Inferential Statistics.

## University of Milan - Bicocca

Teaching assistant

MAY.17–SEP.17

Course: Informatica - Informatics.

## Master Degree Thesis

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**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

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- 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

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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., & Diego, Z. (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

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- 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

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- 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

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- SIS award for the best poster at the SIS-2019 conference.
- Young-SIS award for the best poster at the SIS-2018 conference.

## Software

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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 Toulouse during the UseR! 2019 conference. 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  $\text{\LaTeX}$  for writing scientific documents.

## Badges

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**SAS:** SAS Certified Base Programmer for SAS 9

**SAS:** SAS Certified Predictive Modeler Using SAS Enterprise Miner 7

## Additional Information

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

## Notes

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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".