Federica Zoe Ricci

PHD STUDENT IN STATISTICS

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Professional experience

UC Irvine   *Irvine (CA), United States*

GRADUATE STUDENT RESEARCHER   *Sep. 2019 - Present*

- Development of statistical models for network data analysis (e.g. discovery of latent communities, missing edges)
- Development of statistical models for clustering longitudinal data (e.g. discovery of subject and brain-region clusters in fMRI data)
- Rainfall prediction with regression trees and deep learning methods
- Statistics and data science education (e.g. assisted grading and feedback tools, student engagement in remote learning)

UC Irvine   *Irvine (CA), United States*

GRADUATE TEACHING ASSISTANT   *Sep. 2019 - Dec. 2021*

- Teaching and preparation of educational material for in-person and remote classes in statistics, biostatistics and statistical computing

Bocconi University   *Milan, Italy*

IGIER-ISBA VISITING STUDENT   *Jan. 2017 - Jun. 2018*

- Research (cleaning and analysis of data) on internal migration of Italian workers under the supervision of Dr. J.S. Goerlach

Education

UC Irvine   *Irvine (CA), United States*

PHD IN STATISTICS   *Sep. 2019 - present*

- Recipient of the Hasso Plattner Institute PhD Fellowship, the Newcomb Graduate Award for best performance at qualifying exams and honorary mention for outstanding TA (Dept. of Statistics)
- Co-advised by Dr. E. Sudderth (Dept. of Computer Science and Statistics, UCI) and Dr. M. Guindani (Dept. of Biostatistics, UCLA)
- GPA: 3.9

Bocconi University   *Milan, Italy*

MSC IN ECONOMIC AND SOCIAL SCIENCES (WITH HONORS)   *Sep. 2016 - Feb. 2019*

- Research Thesis on a Bayesian nonparametric model for unsupervised speaker diarization (segmentation of audio stream into portions corresponding to different speakers), advised by Dr. A. Lijoi
- Selected as IGIER-ISBA Visiting Student (program for students with strong research interest and high academic achievements)
- Studied units include frequentist and bayesian statistics, econometrics and causal inference

Bocconi University   *Milan, Italy*

BSC IN ECONOMICS AND MANAGEMENT FOR ARTS, CULTURE AND COMMUNICATION (WITH HONORS)   *Sep. 2012 - Jul. 2015*

- Selected as IGIER-ISBA Visiting Student (program for students with strong research interest and high academic achievements.)
- Valedictorian (youngest among the highest-performing students of my graduating class).
- Interships at Münchner Stadtmuseum (collection of photography, Munich, Germany) and at Art Gallery Patricia Armocida (Milan, Italy)
- Studied units include anthropology, contemporary arts, marketing and law

Research output

PUBLICATIONS

1. Ricci, F. Z., Guindani, M., & Sudderth, E. B. (2022). Thinned random measures for sparse graphs with overlapping communities. *Neural Information Processing Systems*.

2. Migliavada, R., Ricci, F. Z., Denti, F., Haghverdian, D., & Torri, L. (2022). Is purchasing of vegetable dishes affected by organic or local labels? Empirical evidence from a university canteen. *Appetite*, *173*, 105995.

3. Migliavada, R., Ricci, F. Z., & Torri, L. (2021). A three-year longitudinal study on the use of pre-ordering in a university canteen. *Appetite*, *163*, 105203.

4. Rummerfield, W., Ricci, F. Z., & Dogucu, M. (2021). Training graduate students to teach statistics and data science from a distance. *International Association for Statistical Education Satellite Conference*.

PRESENTATIONS

2022   **Thinned random measures for sparse networks with overlapping communities**: Invited Talk at IDWSDS
2022   **Workshop on gradetools: a package for assisted grading in R**: Live-streamed workshop

2022   **tggp4networks**: Author
R package that implements methods for simulation and model inference on network data with the thinned generalized gamma process.

2022   **gradetools**: Author
R package to assist data science instructors with grading and providing feedback to open-ended assignments

2020   **vanillabayescoresets**: Author
R package implementing Bayesian coresets for binary logistic regression data

2020   **ggraph explorer**: Author
Shiny app to plot different network visualizations and corresponding code with ggraph

Awards & Fellowships

2022-2025	Hasso Plattner Institute PhD Fellowship	*UC Irvine*
2020	Division of Teaching Excellence Summer Fellowship	*UC Irvine*
2020	Newcomb Graduate Award	*UC Irvine*
2019-2020	Outstanding TA in Statistics (honorary mention)	*UC Irvine*

Languages

Computer R (advanced), Python (good), C++ (beginner), LaTex, HTML, CSS, Git

Human Italian (native), English (fully proficient), French (intermediate), German (elementary)