

# ALICE GIAMPINO

*Postdoctoral researcher*

## PERSONAL INFORMATION

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Website: <https://alicegiampino.github.io/>

## PROFILE

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I am a Postdoctoral Researcher in Statistics at the Department of Economics, Management and Statistics, at the University of Milano-Bicocca, Italy.

## RESEARCH INTEREST

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I am focused in Bayesian Analysis, in particular Bayesian Nonparametrics. Studying innovative perspectives in model-based clustering. Focus of my Ph.D. studies is related to Bayesian clustering methods with high dimensional data and multivariate time series with changepoint detection. I also worked on topic modelling techniques with distributions defined on the simplex.

**Key-words:** Bayesian methods, clustering, Dirichlet process, temporal dependences, biclustering.

## EDUCATION

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### POSTDOC

*University of Milano-Bicocca*

Dec 2023 - Ongoing

### PHD STATISTICS

*University of Milano-Bicocca*

- PhD in Statistics - title obtained: 28/02/2024;  
Specialised in *Statistics and Mathematics*

Nov 2019 - Nov 2023

Visiting researcher at University of California, Irvine, US (May 2022 - May 2023).

### STATISTICAL SCIENCE

*University of Milano-Bicocca*

- LM-82 Master's degree in Statistical science;  
Specialised in *Statistics and Data science*;  
Date of achievement: 19 September 2019  
Final grade: 110 summa cum laude (Top grade)

Oct 2017 - Sept 2019

### STATISTICAL SCIENCE

*University of Milano-Bicocca*

- L-41 Bachelor's Degree in Statistics;  
Date of achievement: 12 July 2017  
Final grade: 110 summa cum laude (Top grade)

Oct 2014 - Sep 2017

### LICEO SCIENTIFICO

*IIS Carlo Alberto Dalla Chiesa, Sesto Calende (VA)*

- High school leaving qualification in scientific studies ;  
Date of achievement: July 2014  
Final grade: 96/100

Sep 2009 - Jun 2014

## WORK AND TEACHING EXPERIENCE

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<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Lecturer - "Statistical Inference I", Department of Economics, PhD course (16h)</i>	2024/2025
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Lecturer - "Experimental Design", Department of Economics (35h)</i>	2023/2024 - 2024/2025
<b>University of Bergamo, Bergamo (Italy)</b> <i>Teaching Assistant - "Statistics", Department of Engineering (22h)</i>	2023/2024 - 2024/2025
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Tutor - "R for the multivariate statistical analysis", Bachelor in Statistics (21h)</i>	Dec 2024 - Jan 2025
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Tutor - "Statistics III" (generalized linear model), Bachelor in Statistics (15h)</i>	Sep 2024 - Nov 2024
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Tutor - "Disability &amp; SLD support in preparing exams", Department of Statistics (20h)</i>	May 2024 - June 2024
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Jan 2024 - May 2024
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Tutor - "Statistical Model", Bachelor in Statistics (20h)</i>	Feb 2022 - Apr 2022
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Jan 2022 - Apr 2022
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Tutor - "R for the multivariate statistical analysis", Bachelor in Statistics (20h)</i>	Oct 2021 - Jan 2022
<b>TRUSTiCERT S.r.l.</b> <i>Consultancy for statistical analyses.</i>	Jun 2021 - Jul 2022
<b>Politecnico di Milano, Milan (Italy)</b> <i>Teacher assistant, "Bayesian Learning and Monte Carlo Methods", Department of Mathematics (20h)</i>	Feb 2021 - Jul 2021
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Feb 2021 - May 2021
<b>Politecnico di Milano, Milan (Italy)</b> <i>Teacher assistant, "Bayesian Learning and Monte Carlo Methods", Department of Mathematics (20h)</i>	Feb 2020 - Jul 2020
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Jan 2020 - Jul 2020
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Investigate the presence of gender equality within the University</i>	Apr 2019 - Jun 2019

**University of Milano-Bicocca, Milan (Italy)**

Feb 2019 - Apr 2019

Tutor - "Statistical Model", Bachelor in Statistics (20h)

**University of Milano-Bicocca, Milan (Italy)**

Dec 2018 - Apr 2019

PLS project (Scientific Degrees Plan) with high school lessons

**Reply S.p.A, Milan (Italy)**

22 May 2018 - 13 Jul 2018

The Data Incubator - Data Science Bootcamp

**University of Milano-Bicocca, Milan (Italy)**

Feb 2018 - Apr 2018

Tutor - "Statistical Model", Bachelor in Statistics (20h)

## PROJECTS

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- Currently research projects

1. A. Giampino, R. Ascari, S. Migliorati, A flexible mixed-membership model for community and enterotype detection for microbiome data. Computational Statistics and Data Analysis (2025) [10.1016/j.csda.2025.108181](https://doi.org/10.1016/j.csda.2025.108181)
2. A. Giampino, B. Nipoti, A. Canale, "A Bayesian Method for Co-clustering Multivariate Ordinal Data with Informative Censoring", (2025+) Target journal: Statistics and Computing;
3. A. Giampino, M. Guindani, B. Nipoti, M. Vannucci, "Local Level Dynamic Random Partition Models for Changepoint Detection", (2025+) Target journal: Bayesian Analysis;
4. R. Ascari, A. Giampino, S. Migliorati, "An extension of latent Dirichlet allocation", (2025+) Target journal: Biometrics.
5. J. Zonca, A. Giampino, C. Reverberi, P. Cherubini, "Unveiling the cognitive mechanisms driving the suboptimal use of advice", (2025+)

- PhD courses projects

1. [Gradient - R package](#);
2. [Post selection inference fMRI Data](#);
3. [Forest Fire Bayesian Analysis](#).

- Master degree projects

1. [Outlier detection \(R\)](#);
2. [Ames House Price prediction \(R\)](#) ;
3. [Fraud detection \(Knime, R\)](#).

## CONFERENCES - WORKSHOP

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**NEXT Computational and Methodological Statistics (CMStatistics)**

Dec 2025

London, UK.

Invited talk

**NEXT Classification and Data Analysis (CLADAG)**

Sep 2025

Naples, IT.

Invited talk

**NEXT Bayesian Nonparametric (BNP) meeting**

Jul 2025

Los Angeles, US.

Contributed talk

**Computational and Methodological Statistics (CMStatistics)** Dec 2024  
London, UK.

Invited talk: "Co-clustering ordinal data with informative censoring."

**BAYSM -ISBA (International Society for Bayesian Analysis)** June 2024  
Venice, Italy.

Poster session: "Changepoint detection with random partiton models"

**SIS (Italian Society of Statistics)** June 2024  
Bari, Italy.

Contributed talk: "Microbiome enterotype detection via a latent variable allocation model"

**Computational and Methodological Statistics (CMStatistics)** Dec 2023  
Berlin, German.

Invited talk: "Changepoint detection with random partiton models"

**Workshop - Approximation Methods in Bayesian Analysis** June 2023  
CIRM, Marseille, France.

Talk and poster: "A Bayesian Method for Co-clustering Multivariate Ordinal Data with Informative Censoring"

**ASMDA (Applied Stochastic Models and Data Analysis)** June 2023  
Heraklion, Crete, Greece.

Talk: "A flexible generalization of the Latent Dirichlet distribution"

**OBayes (Objective Bayes Methodology Conference)** Sept 2022  
Santa Cruz, CA, U.S.

Poster session: "A Bayesian Method for Co-clustering Multivariate Ordinal Data with Informative Censoring"

**COMPSTAT (Computational Statistics)** Aug 2022  
Bologna, Italy.

Talk: "LEFDA: An extension of the classical Latent Dirichlet Allocation"

**ISBA (International Society for Bayesian Analysis)** June 2022  
Montreal, Canada.

Poster session: "A Bayesian Method for Co-clustering Multivariate Ordinal Data with Informative Censoring"

## AWARDS

**ISBA (International Society for Bayesian Analysis)** June 2024  
Travel award

**Ph.D. Fellowship** Nov 2019 - Oct 2023  
University of Milano - Bicocca, Milan (Italy)

**OBayes (Objective Bayes Methodology Conference)** Sept 2022  
Travel award

**ISBA (International Society for Bayesian Analysis)**

June 2022

*Travel award*

**SUS5 (Stats Under the Stars 5th edition)**

June 2019

*Winner of the statistical hackathon in 2019.*

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## PUBLICATIONS & PROCEEDINGS

**Computational and Methodological Statistics (CMStatistics)**

Dec 2024

*Giampino A., Canale A. & Nipoti B. "Bayesian co-clustering of ordinal data with informative censoring"*  
*Book of Abstract*  
*ISBN 978-9925-7812-8-7*

**Italian Society of Statistics (SIS)**

June 2024

*Giampino A., Ascari R. & Migliorati S., "Microbiome enterotype detection via a latent variable allocation model"*  
*To appear - Springer*

**Computational and Methodological Statistics (CMStatistics)**

Dec 2023

*Giampino A., Guindani M., Nipoti B. & Vannucci M. "Changepoint detection with random partition models"*  
*Book of Abstract*  
*ISBN 978-9925-7812-7-0*

**Classification and Data Analysis (CLADAG)**

Sept 2023

*Ascari R. & Giampino A., "A Flexible Topic Model"*  
*Book of Abstract*  
*ISBN 9788891935632*

**Computational and Methodological Statistics (CMStatistics)**

Dec 2022

*Ascari R. & Giampino A., "A generalization of the latent Dirichlet allocation"*  
*Book of Abstract*  
*ISBN 978-9925-7812-6-3*

**Computational Statistics (COMPSTAT)**

Aug 2022

*Giampino A., Ascari R. & Migliorati S., "LEFDA: An extension of the classical LDA"*  
*Book of Abstract*  
*ISBN 978-90-73592-40-7*

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## OTHER INFORMATIONS

- Several co-supervised Master and Bachelor Thesis.
- I am a Research Fellow Representative at my Department
- Covstat\_it (Mar 2020 - Jun 2020) *Sentiment analysis with Bayesian models based on Italian tweets covid related.*

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## ABOUT ME

- I love hiking and trying new experiences;
- European driver license: B;

- I have the authorization of use a AED (automated external defibrillator);
- I used to compete at international level for show jumping competition riding horses.

#### **PERSONAL DATA AUTHORIZATION**

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Personal data can be used following the currently Privacy Laws.

28/05/2025