

# ALICE GIAMPINO

*Postdoctoral researcher*

## PERSONAL INFORMATION

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## 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.

## EDUCATION

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### POSTDOC

Dec 2023 -

*University of Milano-Bicocca*

### PHD STATISTICS

Nov 2019 - Nov 2023

*University of Milano-Bicocca*

- PhD in Statistics;  
Specialised in *Statistics and Mathematics*

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

### STATISTICAL SCIENCE

Oct 2017 - Sept 2019

*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)

### STATISTICAL SCIENCE

Oct 2014 - Sep 2017

*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)

### LICEO SCIENTIFICO

Sep 2009 - Jun 2014

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

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

## WORK AND TEACHING EXPERIENCE

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<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Lecturer - "Experimental Design", Department of Economics (35h)</i>	Feb 2024 - Sep 2024
<b>University of Bergamo, Bergamo (Italy)</b> <i>Teaching Assistant - "Statistics", Department of Engineering (22h)</i>	Sep 2023 - Dec 2023
<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
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Tutor - "Statistical Model", Bachelor in Statistics (20h)</i>	Feb 2019 - Apr 2019
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Dec 2018 - Apr 2019
<b>Reply S.p.A, Milan (Italy)</b> <i>The Data Incubator - Data Science Bootcamp</i>	22 May 2018 - 13 Jul 2018
<b>University of Milano-Bicocca, Milan (Italy)</b> <i>Tutor - "Statistical Model", Bachelor in Statistics (20h)</i>	Feb 2018 - Apr 2018

## PROJECTS

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- Currently research projects

1. [\\_, B. Nipoti, A. Canale](#), "A Bayesian Method for Co-clustering Multivariate Ordinal Data with Informative Censoring", (2024+)  
Target journal: Statistics and Computing;
2. [\\_, M. Guindani, B. Nipoti, M. Vannucci](#), "Changepoint Detection with Random Partition Models", (2024+)  
Target journal: Bayesian Analysis;
3. [R. Ascari, \\_, S. Migliorati](#), "An extension of latent Dirichlet allocation", (2024+)  
Target journal: Journal of Machine Learning Research.

- 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 \(Knn, R\)](#).

## CONFERENCES - WORKSHOP

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**Computational and Methodological Statistics (CMStatistics)**

Dec 2023

Berlin, German.

Invited talk: "Changepoint detection with random partition 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

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<b>Ph.D. Fellowship</b> <i>University of Milano - Bicocca, Milan (Italy)</i>	Nov 2019 - Oct 2023
<b>OBayes (Objective Bayes Methodology Conference)</b> <i>Travel award</i>	Sept 2022
<b>ISBA (International Society for Bayesian Analysis)</b> <i>Travel award</i>	June 2022
<b>SUS5 (Stats Under the Stars 5th edition)</b> <i>Winner of the statistical hackathon in 2019.</i>	June 2019

## PUBLICATIONS & PROCEEDINGS

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<b>Computational and Methodological Statistics (CMStatistics)</b> <i>Giampino A., Guindani M., Nipoti B. &amp; Vannucci M. "Changepoint detection with random partition models"</i> <i>Book of Abstract</i> <i>ISBN 978-9925-7812-7-0</i>	Dec 2023
<b>Classification and Data Analysis (CLADAG)</b> <i>Ascari R. &amp; Giampino A., "A Flexible Topic Model"</i> <i>Book of Abstract</i> <i>ISBN 9788891935632</i>	Sept 2023
<b>Computational and Methodological Statistics (CMStatistics)</b> <i>Ascari R. &amp; Giampino A., "A generalization of the latent Dirichlet allocation"</i> <i>Book of Abstract</i> <i>ISBN 978-9925-7812-6-3</i>	Dec 2022
<b>Computational Statistics (COMPSTAT)</b> <i>Giampino A., Ascari R. &amp; Migliorati S., "LEFDA: An extension of the classical LDA"</i> <i>Book of Abstract</i> <i>ISBN 978-90-73592-40-7</i>	Aug 2022

## PERSONAL DATA AUTHORIZATION

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