

ALICE GIAMPINO

Postdoctoral researcher

PERSONAL INFORMATION

Email: alice.giampino@unimib.it

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

PROFILE

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

RESEARCH INTEREST

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

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

University of Milano-Bicocca, Milan (Italy) <i>Tutor - "Disability & SLD support in preparing exams", Department of Statistics (20h)</i>	May 2024 - June 2024
University of Milano-Bicocca, Milan (Italy) <i>Lecturer - "Experimental Design", Department of Economics (35h)</i>	Feb 2024 - Sep 2024
University of Milano-Bicocca, Milan (Italy) <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Jan 2024 - May 2024
University of Bergamo, Bergamo (Italy) <i>Teaching Assistant - "Statistics", Department of Engineering (22h)</i>	Sep 2023 - Dec 2023
University of Milano-Bicocca, Milan (Italy) <i>Tutor - "Statistical Model", Bachelor in Statistics (20h)</i>	Feb 2022 - Apr 2022
University of Milano-Bicocca, Milan (Italy) <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Jan 2022 - Apr 2022
University of Milano-Bicocca, Milan (Italy) <i>Tutor - "R for the multivariate statistical analysis", Bachelor in Statistics (20h)</i>	Oct 2021 - Jan 2022
TRUSTiCERT S.r.l. <i>Consultancy for statistical analyses.</i>	Jun 2021 - Jul 2022
Politecnico di Milano, Milan (Italy) <i>Teacher assistant, "Bayesian Learning and Monte Carlo Methods", Department of Mathematics (20h)</i>	Feb 2021 - Jul 2021
University of Milano-Bicocca, Milan (Italy) <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Feb 2021 - May 2021
Politecnico di Milano, Milan (Italy) <i>Teacher assistant, "Bayesian Learning and Monte Carlo Methods", Department of Mathematics (20h)</i>	Feb 2020 - Jul 2020
University of Milano-Bicocca, Milan (Italy) <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Jan 2020 - Jul 2020
University of Milano-Bicocca, Milan (Italy) <i>Investigate the presence of gender equality within the University</i>	Apr 2019 - Jun 2019
University of Milano-Bicocca, Milan (Italy) <i>Tutor - "Statistical Model", Bachelor in Statistics (20h)</i>	Feb 2019 - Apr 2019
University of Milano-Bicocca, Milan (Italy) <i>PLS project (Scientific Degrees Plan) with high school lessons</i>	Dec 2018 - Apr 2019
Reply S.p.A, Milan (Italy) <i>The Data Incubator - Data Science Bootcamp</i>	22 May 2018 - 13 Jul 2018

PROJECTS

- Currently research projects

1. A. Giampino, B. Nipoti, A. Canale, "A Bayesian Method for Co-clustering Multivariate Ordinal Data with Informative Censoring", (2024+)
Target journal: Statistics and Computing;
2. A. Giampino, M. Guindani, B. Nipoti, M. Vannucci, "Changepoint Detection with Random Partition Models", (2024+)
Target journal: Bayesian Analysis;
3. R. Ascari, A. Giampino, S. Migliorati, "An extension of latent Dirichlet allocation", (2024+)
Target journal: Journal of Machine Learning Research.
4. J. Zonca, A. Giampino, C. Reverberi, P. Cherubini, "Unveiling the cognitive mechanisms driving the suboptimal use of advice", (2024+)

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

CONFERENCES - WORKSHOP

NEXT: 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 partition 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, Germany.

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

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.

PUBLICATIONS & PROCEEDINGS

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

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

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

Personal data can be used following the currently Privacy Laws.