## Department of Economics, Management and Statistics (DEMS) University of Milano Bicocca Piazza dell'Ateneo Nuovo 1, 20126 Milano

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CURRENT POSITION	<b>Postdoctoral researcher in Statistics</b> (From Dec 2021) Department of Economics, Management and Statistics (DEMS) University of Milano Bicocca Supervisor: Prof. Bernardo Nipoti
Education	<ul> <li>PhD in Statistics</li> <li>Oct 2018 – Nov 2021; defense on May 4, 2022</li> <li>Department of Statistical Science, University of Padova <ul> <li>Thesis: "Bayesian modeling of calcium imaging data"</li> <li>Supervisor: Prof. Antonio Canale</li> <li>Co-supervisor: Prof. Michele Guindani</li> </ul> </li> </ul>
	<ul> <li>Master's Degree in Statistics</li> <li>Oct 2015 – Nov 2017</li> <li>Department of Statistical Science, University of Padova <ul> <li>Thesis: "Bayesian nonparametric models: applications in insurance"</li> <li>Supervisor: Prof. Antonio Canale</li> <li>Final mark: 110/110 cum laude</li> </ul> </li> </ul>
	<ul> <li>Bachelor's Degree in Statistics, Economics and Finance Oct 2012 – Sep 2015</li> <li>Department of Statistical Science, University of Padova <ul> <li>Thesis: "Covariate-specific area under the ROC curve"</li> <li>Supervisor: Prof. Gianfranco Adimari</li> <li>Final mark: 110/110 cum laude</li> </ul> </li> </ul>
VISITING PERIODS	Department of Statistics, University of California, Irvine. Irvine, CA; USA. Jan 2020 – Nov 2020 Supervisor: Prof. Michele Guindani
Awards	<ul> <li>ISBA Poster Award, ISBA 2022</li> <li>Junior travel award, ISBA 2022</li> <li>Best Student/Postdoc Contributed Paper Award, ISBA 2021</li> </ul>
Work experience	Data analyst at BIP, Milan (Jan 2018 – Sep 2018).

Research Interests	• Bayesian modeling
	• Model-based clustering
	• Computational statistics
Publications	In reverse chronological order:
	• D'Angelo L. and Canale A. (2023) Efficient posterior sampling for Bayesian Poisson regression. <i>Journal of Computational and Graphical Statistics</i> , 32(3), 917–926. DOI: 10.1080/10618600.2022.2123337.
	• D'Angelo L., Canale A., Yu Z. and Guindani M. (2023) Bayesian nonparametric analysis for the detection of spikes in noisy calcium imaging data. <i>Biometrics</i> , 79(2), 1370–1382. DOI: 10.1111/biom.13626.
	• D'Angelo L. (2023) A comparison of computational approaches for posterior inference in Bayesian Poisson regression, in <i>Book of Short Papers SIS 2023</i> , 903-907. (Draft version available at https://sis2023.dises.univpm.it/).
	• D'Angelo L. and Denti F. (2023) Bayesian analysis of Amazon's best-selling books via finite nested mixture models, in <i>Book of Short Papers SIS 2023</i> , 1117-1120. (Draft version available at https://sis2023.dises.univpm.it/).
	• D'Angelo L. (2022) Bayesian nonparametric clustering of spatially-referenced spike train data, in <i>Book of Short Papers SIS 2022</i> , 514-519.
	• Denti F., D'Angelo L. and Guindani M. (2022) Bayesian approaches for capturing the heterogeneity of neuroimaging experiments, in <i>Book of Short Papers SIS 2022</i> , 17–29.
	• D'Angelo L. and Canale A. (2021) Contributed Discussion on: "Centered Partition Processes: Informative Priors for Clustering", in Bayesian Analysis, 16(1), 356–358.
	• D'Angelo L., Canale A., Yu Z. and Guindani M. (2021) Detection of neural activity in calcium imaging data via Bayesian mixture models, in <i>Book of Short Papers SIS 2021</i> , 745–750.
	• D'Angelo L. (2019) Model based clustering in group life insurance via Bayesian nonparametric mixtures, in <i>Book of Short Papers SIS 2019</i> , 781–786.
Software	• D'Angelo L. and Denti F. (2023) "SANple: Fitting Shared Atoms Nested Models via Markov Chains Monte Carlo", <i>R package</i> , URL: https://CRAN.R-project.org/package=SANple
	<ul> <li>Denti F. and D'Angelo L. (2023) "SANvi: Fitting Shared Atoms Nested Models via Variational Bayes", <i>R package</i>, URL: https://CRAN.R-project.org/package=SANvi</li> </ul>
	• D'Angelo L. (2021) "bpr: Fitting Bayesian Poisson Regression", <i>R package</i> , URL: https://CRAN.R-project.org/package=bpr
Conference Presentations	• Invited talk: "A Bayesian hierarchical mixture model for clustering Spotify's songs and artists"; <i>StaTalk 2023</i> , Roma, Italy; September 15, 2023.
	• Contributed talk: "A comparison of computational approaches for posterior inference in Bayesian Poisson regression"; <i>SIS 2023</i> , Ancona, Italy; June 21 – 23, 2023.
	• Invited talk: "Bayesian nonparametric clustering of spatially-referenced spike train data"; SIS 2022, Caserta, Italy; June 22 – 24, 2022.
	• Discussant at the solicited session "Bayesian inference for complex random structures"; <i>SIS 2022</i> , Caserta, Italy; June 22 – 24, 2022.

	• Contributed talk: "Bayesian nonparametric analysis for the detection of spikes in noisy calcium imaging data"; JSM 2021; August 8 – 12, 2021.
	• Contributed talk: "Bayesian nonparametric analysis for the detection of spikes in noisy calcium imaging data"; <i>ISBA 2021</i> , June 23 – July 2; 2021.
	• Contributed talk: "Detection of neural activity in calcium imaging data via Bayesian mixture models"; <i>SIS 2021</i> , Pisa, Italy; June 21 – 25, 2021.
	• Talk: "Efficient posterior sampling for Bayesian Poisson regression"; Junior session at the <i>Bayesian Nonparametrics for Complex Data, Concluding workshop</i> , University of Padova; January 24, 2020.
	<ul> <li>Contributed talk: "Model based clustering in group life insurance via Bayesian non- parametric mixtures"; SIS 2019, Milan, Italy; June 12 – 14, 2019.</li> </ul>
Poster Presentations	• "Clustering activation patterns of spatially-referenced neurons"; <i>Statistical methods and models for complex data</i> , Padova, Italy; September 21 – 23, 2022.
	• "Clustering activation patterns of spatially-referenced neurons"; <i>ISBA 2022</i> , Montreal, Canada; June 27 – July 1, 2022.
Seminars	• "Modeling grouped data via finite nested mixture models: an application to cal- cium imaging data"; seminar at Dipartimento di Statistica, Informatica, Applicazioni "Giuseppe Parenti", Università degli Studi di Firenze, Firenze, Italy; June 8, 2023.
	• Two seminars during the MSc course "Temi e metodi di popolazione e società" (Dott. P. Belloni): "Introduzione ai modelli mistura Bayesiani" (Introduction to Bayesian mixture models) and "Modelli mistura gerarchici per il clustering di contenuti musi- cali" (Nested mixture models for clustering Spotify's songs and artists); Department of Statistics, University of Padova, Padova, Italy; May 8–9, 2023.
	• "Analysis of calcium imaging data via finite nested mixture models"; seminar at the Department of Economics, University of Bergamo; April 4, 2023.
	• "Analysis of calcium imaging data via nested mixture models"; seminar during the MSc course of Bayesian Statistics, Department of Mathematics, Politecnico di Milano; October 28, 2022.
	• "Clustering activation patterns of spatially-referenced neurons"; virtual seminar at the Department of Statistics, ITAM, Mexico; September 2, 2022.
	• Presentation of the topic and data description at the Data Research Camp, San Servolo Island, Venice, Italy; July 12, 2022.
Teaching experience	• Lecturer: Statistical Modelling (32 hours). A.Y. 2023/2024, B.Sc. in Artificial Intelligence, inter-university course of the Universities of Milano-Bicocca, Milano Statale and Pavia.
	• Seminar on the use of Latex for scientific writing and bibliography management (April 23, 2021; 2.30 hours). M.Sc. course in Statistics, University of Padova.
	• Teaching Assistant: Advanced Statistics (M.Sc. course in Statistics) and Mathematical Analysis 1 (B.Sc. course in Statistics). A.Y. 2016/2017, University of Padova.
Workshops	• Bayesian Nonparametrics for Complex Data, Concluding workshop. January 24, 2020; Department of Statistical Sciences, University of Padova, Padova, Italy.
	• Data Research Camp, San Servolo Island, Venice, Italy. July 2 – 5, 2019. 3-day meeting where groups of young scholars, advised by a senior researcher, were asked to develop innovative methods and models to analyze a common dataset

SERVICE	Memberships
	• International Society for Bayesian Analysis
	• Società Italiana di Statistica
	Referee for: (alphabetical order)
	Biostatistics; Computational Statistics and Data Analysis; Journal of the Royal Statistical Society: Series C; Statistical Science; Statistics in Medicine.
Computer skills	• Languages: R, Rcpp (good); C/C++, Python (basic).
	• Other: Latex (good); GitHub (basic); HTML, CSS (basic).
LANGUAGES	Italian (native); English (good).
Data Hackathons	• June 27 – 28, 2017: First prize winner at Stats Under the Stars <sup>3</sup> , Florence.