Marco Mingione

Curriculum Vitae

Education

- 2018-2022 **PhD in Methodological Statistics**, "La Sapienza University of Rome", Thesis: On the wide applicability of Bayesian Hierarchical Models.
 - Supervisor: Giovanna Jona Lasinio
- ²⁰¹⁵⁻²⁰¹⁷ **Master's degree in Statistics and Decision Sciences "Official Statistics"**, "La Sapienza University of Rome", Thesis: Measuring and modeling food losses and waste. Full marks with honours.
- 2012-2015 **Bachelor's degree in Statistics for Management**, *"La Sapienza University of Rome"*, Thesis: *Quantitative analysis of the musictherapy effects on children with PDD (Personal Developmental Disorders). Full marks with honours.*
- ²⁰⁰⁷⁻²⁰¹² Language High school Diploma, "Campus dei Licei M. Ramadù", Cisterna Di Latina (LT). 100/100.

Academic experience

- 2021–2022 **Research Fellow**, *"La Sapienza University of Rome"*. Developing algorithms for multiple record linkage
- Sep 2019–Mar 2020 Visiting Graduate Researcher, "University of California, Los Angeles", (UCLA). Supervisor: Sudipto Banerjee
- Jan 2019 ongoing Research Associate, Institute of Applied Computing "M. Picone", (IAC CNR), Rome (Italy).
- Jan 2018 Oct 2018 Research Fellow, Institute of Applied Computing "M. Picone", (IAC CNR), Rome (Italy).

Teaching experience

Oct 2021	Professor in "Statistical Learning" , "La Sapienza - University of Rome", Rome (Italy).
Sep 2021 – Dec 2021	Teaching Assistant in "Advanced Statistics", LUISS "Guido Carli", Rome (Italy).
May 2021 – Oct 2021	Professor in "Introduction to Data Science", University of Bari "A. Moro", Bari (Italy).
Mar 2021 – ongoing	Teaching Assistant in "Statistical methods in data science and laboratory" , "La Sapienza - University of Rome", Rome (Italy).
Oct 2020 – ongoing	Teaching Assistant in "Statistics", "Università Roma Tre", Rome (Italy).
Jul 2020 – Jul 2021	Teaching Assistant in "Statistics", "Universitas Mercatorum", Rome (Italy).
Oct 2018 – Jan 2019	Teaching Assistant in "Statistics for Ecobiology", "La Sapienza - University of Rome", Rome (Italy).
	Work experience

^{2018 - ongoing} **Consultant**, *Analisi-Statistiche.it*, di Alessandro Catini, Rome (Italy).

Aug 2017 Case Study Analysis, Food-Service "Algida", Unilever, Rome (Italy).

Feb 2017 - May 2017 **Volunteer Assistant**, FAO - FOOD AND AGRICULTURAL ORGANIZATION, Rome (Italy). Studying methodology assessments applied worldwide towards the achievement of the SDG 12.3.

Extra-Curricular Activities and Projects

May 2021 - ongoing Joint Cetacean Database Mapping (JCDM).

Research project which aims at building a Shiny application for the monitoring and prediction of cetaceans sightings in the Mediterranean Sea.

Sep 2020 - ongoing MyExposure, Route planning Shiny application based on pollution exposure.

Apr 2020 - ongoing Monitoring COVID-19 epidemic in Italy.

Research project with StatGroup-19 team related to correct statistical communication of the epidemic data. Model implementation and development of a web application (link).

- Sep 2018 1st Summer School "Introduction to Bayesian Data Analysis with Stan", UNIVERSITY OF PAVIA.
- Jun 2018 Applied Bayesian Statistics School 2018 Statistical Modelling and Analysis in Sport, IMATI-CNR.
- Jun 2017 Statistics Under the Stars, Florence (Italy), 'Best prediction' award (as a team).
- Oct 2016 European Statistical Week, EUROSTAT, Luxembourg city (Luxembourg).

Computer Skills

Languages R, Shiny, Rmarkdown, LATEX, C++, SQL, Postgres, HTML Development RStudio, Overleaf, Github, Slack platforms

Languages

. .

98/120
- level B1
- level B1
-

Publications and Proceedings

2021 Statistical communication of COVID-19 epidemic using widely accessible interactive tools, *M. Mingione, P. Alaimo Di Loro.*

Book of short papers SIS 2021, pp. 1738-1743. ISBN: 9788891927361

2021 **Spatial modelling of COVID-19 incidence cases using Richards' curve: an application to the Italian regions**, *M. Mingione*, *P. Alaimo Di Loro*, *A. Farcomeni*, *F. Divino*, *G. Jona Lasinio*, *G. Lovison*, *A. Maruotti*.

Spatial Statistics 2021 https://doi.org/10.1016/j.spasta.2021.100544

- 2021 Capitoline Dolphins: Residency Patterns and Abundance Estimate of Tursiops truncatus at the Tiber River Estuary (Mediterranean Sea), D. S. Pace, C. Di Marco, G. Giacomini, S. Ferri, M. Silvestri, E. Papale, E. Casoli, D. Ventura, M. Mingione, P. Alaimo Di Loro, G. Jona Lasinio, G. Ardizzone. Biology 2021, 10(4), 275; https://doi.org/10.3390/biology10040275
- 2021 Nowcasting COVID-19 incidence indicators during the Italian first outbreak, P. Alaimo Di Loro, F. Divino, A. Farcomeni, G. Jona Lasinio, G. Lovison, A. Maruotti, M. Mingione. Statistics in Medicine, 40(10), https://doi.org/10.1002/sim.9004
- 2021 Measuring and modeling food losses, *M. Mingione, C. Fabi, G. Jona Lasinio*. Journal of Official Statistics, Vol. 37, No. 1, 2021, pp. 171–211, https://doi.org/10.2478/jos-2021-0008
- 2021 Model-based clustering for estimating cetaceans site-fidelity and abundance, G. Jona Lasinio, D. S. Pace, M. Mingione, G. Caruso, P. Alaimo Di Loro, G. Panunzi, L. Tardella, S. Moro, E. Bompiani. Book of short papers (pp. 292-295). CLADAG 2021. ISBN: 978-88-5518-340-6
- 2021 Bayesian hierarchical modeling and analysis for physical activity trajectories using actigraph data, *P. Alaimo Di Loro, M. Mingione, J. Lipsitt, C. Batteate, M. Jerrett, S. Banerjee*, Under review. Arxiv. https://arxiv.org/abs/2101.01624
- 2020 Compositional analysis of fish communities in a fast changing marine ecosystem, M. Mingione, P. Alaimo Di Loro, G. Jona Lasinio, S. Martino, F. Colloca. Book of short papers SIS 2020, pp. 834-839. ISBN: 9788891910776
- 2019 Adversarial out-domain examples for generative models, *D. Pasquini, M. Mingione, M. Bernaschi*. Book of short papers (MaL2SeC 2019). ISBN: 978-1-7281-3026-2. DOI: 10.1109/EuroSPW.2019.00037

- 2019 Multivariate analysis and biodiversity partitioning of a demersal fish community: an application to Lazio coast, *M. Mingione, G. Jona Lasinio, S. Martino, F. Colloca.* Book of short papers SIS 2019, pp. 985-990. ISBN: 9788891915108
- 2018 Methodological proposal for monitoring SDG Target 12.3.1 Sub-Indicator 12.3.1. The Food Loss Index design, data collection methods and challenges, *C Fabi, A English, M Mingione, G Jona Lasinio.* FAO working paper

Invited Talks

- 2021 **One World YoungStats Recent advances in COVID-19 modelling**, "Nowcasting Italian COVID-19 epidemic".
- 2021 **Spatio-Temporal Statistical Symposium 2021**, "Bayesian hierarchical modeling and analysis of physical activity trajectories using Actigraph data".
- 2021 SIS 2021 50th Meeting of the Italian Statistical Society, "Modelling dirty surveillance data during the Italian epidemic outbreak of SARS- CoV-2".
- 2021 ASMDA 2021 International Conference and Demographics Workshop, "Bayesian hierarchical modeling and analysis of physical activity trajectories using Actigraph data".

Contributed Talks

- 2020 IBC 2020 30th International Biometric Conference, "Temporal NNGP for actigraph data".
- 2020 Giornata Giovani Ricercatori IAC, "Efficient estimation of temporal Gaussian processes models for physical activity level in a large-scale population study".
- 2019 SIS 2019 48th Meeting of the Italian Statistical Society, "Multivariate analysis and biodiversity partitioning of a demersal fish community: an application Lazio coast".