

Marco Mingione

Curriculum Vitae

"You cannot teach a man anything, you can only help him find it within himself." - G. Galilei

Education

- 2018-2022 **PhD in Methodological Statistics**, "La Sapienza - University of Rome", Thesis defense: February 2022.
Supervisor: Giovanna Jona Lasinio
- Sep 2019-Mar 2020 **Visiting Graduate Researcher**, "University of California, Los Angeles", (UCLA).
Supervisor: Sudipto Banerjee
- 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.

Work Experiences

- Jan 2019 - ongoing **Research Associate**, Institute of Applied Computing "M. Picone", (IAC – CNR), Rome (Italy).
- May 2021 - ongoing **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 2018 - Jan 2019 **Teaching Assistant in "Statistics for Ecobiology"**, "La Sapienza - University of Rome", Rome (Italy).
- Jan 2018 - Oct 2018 **Research Fellow**, Institute of Applied Computing "M. Picone", (IAC – CNR), 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

- 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.
- 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, $\text{\LaTeX}$, C++, SQL, Postgres, HTML
- Development RStudio, Overleaf, Github, Slack
- platforms

Publications and Proceedings

- 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*, Accepted for publication.
Arxiv. <http://arxiv.org/abs/2106.05067>
- 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 **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”.