

Gianrico Di Fonzo

Statistician

Date of birth: 09/08/1993

Nationality: Italian

Education

- Nov/2019– Present **PhD, Statistical Methodology**, University "La Sapienza", Rome.
MAIN COURSES: Environmental Epidemiology, Multivariate Inference, Deep Learning and Generalized Linear Model
- 2016–2019 **Master's Degree, Statistic for decision making Vote:110 (e lode)**, University "La Sapienza", Rome.
MAIN COURSES: Big Data Analytics, Bayesian Data Modeling, Clinical Trial Analysis, Earth Observation Model, Monte Carlo method.
- 2016–2017 **International Double Degree (Italy-France), Mathématiques appliquées**, Paris Dauphine, Paris.
MAIN COURSES: Bayesian Statistic, High Dimensional and Non Parametric Statistic, Monte Carlo.
- 2012–2015 **Bachelor's Degree, Statistica Decisionale**, University "La Sapienza", Rome.
MAIN COURSES: Statistical Methodology, Predictive Modeling, Data Mining, Data Modeling.
- 2007–2012 **High School Diploma**, Liceo Scientifico Leonardo Da Vinci, Terracina.

Master's thesis

- title *Agricultural Land Use: A Remote Sensing Approach For Classification*
supervisors Pierpaolo Brutti, Elisabetta Carfagna

Double Degree thesis

- title *Testing Hypotheses Via a Mixture Estimation of Autoregressive Processes*
supervisors Christian P. Robert

Bachelor's Thesis

- title *Collinearity: A Measure For Diagnostic*
supervisors Cecilia Vitiello

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Work Experience

Vocational

- Jul/20– Present **Statistical Ministry Official**, *Ministry of Public Health*, Rome, Project.
Working in a team, developing national indicator about the regional performance in public health (DGPROG).
ACQUIRED SKILLS: Team Working, **Public Health Statistics**, Statistic Indicator, Risk Adjustment.
- Apr/21– Sep/21 **Statistic and Probability tutor**, *Sapienza University*, Rome.
Teaching statistical inference and Probability at Engineer Faculty.
ACQUIRED SKILLS: **Class Speech**, Course Schedule Design.
- Sep/20– Nov/2020 **Lecturer in Statistics**, *ELIS, Rome*, MIDAS: Master in IOT and Data Science.
Teaching statistical inference and data management to a class of twenty students.
ACQUIRED SKILLS: **Class Speech**, Course Schedule Design.
- Apr/2019– Nov/2019 **Statistical Researcher**, *Dipartimento di Epidemiologia del Servizio Sanitario Regionale ASL Roma*, Rome, Project.
Working in a team, Modelling environmental epidemiology about heat waves and air pollutant concentration exposure .
ACQUIRED SKILLS: Team working, **Environmental epidemiology**, Modelling and machine learning, **Health Statistic**.
- Oct/2017– Apr/2018 **Data Analyst**, *Joint Service*, Rome, Internship.
Working in a team, Modelling Fraud detection for public institution and management of SQL database.
ACQUIRED SKILLS: Team working, **Fraud Modelling**, Database management.
- May/2017– May/2017 **Earth Observation Model**, *ESRIN ESA*, Frascati, Italy, .
Internship: Intensive Lessons about Statistics applied to Earth Observation with Snap.
ACQUIRED SKILLS: Snap software ESA, **Earth Observation Model**.
- Apr/2017– May/2017 **Big Data Modelling**, *University "La Sapienza"*, Rome, Massimiliano Tommasi, Software Engineer at DataStax.
Conference and Case Study: Studying Big Data Modeling with Apache Cassandra and an implementation of a Recommendation System for the client based on Instacart supermarket data with Apache Spark and Neo4j .
ACQUIRED SKILLS: Real Big Data, **Big Data Modeling**, Apache Cassandra.
- 2015–2018 **Tutor and Orienteering**, *University "La Sapienza"*, Rome.
University Cooperation Scholarship: Sponsor and Vocational Orienteering for the Faculty choice.
ACQUIRED SKILLS: Teamwork, **Project Development** and Communication.
- 2014 **Statistical Analyst**, *Conservatorio Licinio Refice*, Frosinone, Italy, .
Executed an entire statistical analysis based on the elaboration of surveys of the European "Working With Music" project. Results are translated and published in two languages.
ACQUIRED SKILLS: **Statistical Analysis** Design, Data Entry, Data Elaboration.

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Prizes and Awards

Nov/2019 **Scholarship Contest for Young Statisticians**, *United States Department of Agriculture (USDA)*, India-New Delhi, Scholarship.

ICAS VIII conference and two-day training seminar on Methodology for Agricultural Censuses and Surveys.

ACQUIRED SKILLS: **International Group Working** Principles of a Statistical System, Planning for Agricultural Censuses and Surveys, Questionnaire Design, Use of Agricultural Data, Sampling Frames and Sample Design, Framework for Data Collection Operations and Editing, Analysis and Summarization of Survey Data

2018 **Premium student**, *University "La Sapienza"*, Rome.

"Progetto Ponte" is a University exclusive Honours programme. Working in a team to increase the response rate among young people as well as the quality of the information for new students.

ACQUIRED SKILLS: Learn by Doing, **Public Speaking**

Publication and Conference

Jul/2023 *Data Science Structure and the role of Statistics*, Elisabetta Carfagna, Gianrico Di Fonzo, Giovanna Jona Lasinio, Paulo Canas Rodrigues, IPS 90 - Fourth Industrial Revolution, Data Science and the Future of Official Statistics, 64th World Statistic Congress ISI, Ottawa

May/2023 *Landscape context importance for predicting forest transition success in central Panama* Giulia Bardino, Gianrico Di Fonzo, Kendra Walker, Marcello Vitale, Jeferson S. Hall, *Landscape Ecology* (2023): Volume 38, pages 2307–2321, Springer, DOI 10.1007/s10980-023-01694-y.

Dec/2021 *Land Cover/Use Analysis and Modelling*, Carfagna, Elisabetta, and Gianrico Di Fonzo, *Spatial Econometric Methods in Agricultural Economics Using R* (2021): 88-107, CRC Press/Taylor & Francis Group, ISBN 9781032053707.

Oct/2019 *Stima delle concentrazioni giornaliere di NO2 in Italia per l'anno 2015 attraverso l'uso di modelli "ensemble"*, Sezione Metodi, AIE 2019 Catania.

Languages

English B2

French A2

Spanish A1

Computer skills

Statistical Programs R, Python, SAS, Matlab, SPSS, Stata

Geostatistical program SNAP, GDAL, ArcGis, QGis

Big Data Apache Cassandra and Spark, Neo4j, Java

Database Oracle and Windows SQL, NoSQL, CQL

Computer system Cisco Certificate

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Interests

- Scout Leader Scout Group ROMA 139 AGESCI, Italy. Trained chief in a Scout group AGESCI composed by 10 people who organize scout activities for the young between 8 and 21 years old, divided into three age group. Duration: all year round (including Summer camp).
- Football Semi-professional Football Player for more than 10 years
- Travel 3 continents visited so far

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Extra

- Volunteer Experience: A.V.O.G. Gemelli Hospital, Rome, Italy.
Joined the A.V.O.G programme that provides support to people without family assistance in the hospital.
- Baby Sport Instructor: Football Baby School, Lenola, Italy.
Baby Coach and Summer Camp organizer for the promotion of healthy life among young people.

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