Francesco Mariani

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Current Position

Nov. 2021 - Current	**"La Sapienza" University of Rome**, *Phd in Methodological Statistics*, Dept. of Statistical Sciences
Research interests	**Statistical Inference**, Analysis and design of clinical trials, Bayesian modelling, Computational statistics.

Education

Jul. 2021	**"La Sapienza" University of Rome**, *Master in Statistical Sciences*, Dept. of Statistical Sciences, GPA: 29.83/30 Mark: 110 cum laude/110
Thesis:	*A dynamic power prior approach to non-inferiority clinical trials with normal means and unknown variances*
Supervisors	Professor De Santis Fulvio & Professor Gubbiotti Stefania
Jul. 2019	**"La Sapienza" University of Rome**, *Bachelor in Statistics, Finance and Insurances*, Dept. of Statistical Sciences, GPA: 28.78/30 Mark: 110 cum laude/110
Thesis:	*Sovrapposizione di intervalli di confidenza per la verifica di uguaglianza tra parametri* –Translation: *Assessing equality of parameters using the overlap of confidence intervals*
Supervisors	Professor De Santis Fulvio & Professor Gubbiotti Stefania

Student Visits

Spring 2020	**University of Paris-Dauphine**, *Erasmus+ Programme*, Dept. of Applied Mathematics, Main language: English

Projects

Feb. 2022– Ongoing	**Statistical designs for dose finding in drug-combination Phase-I (oncology) trials**, *Prof. Trippa Lorenzo, Harvard University, USA, Prof . Russo Massimiliano, Harvard University, USA*
May. 2021– Ongoing	**Bayesian approaches to exploit historical data in non-inferiority clinical trials**, *Prof. De Santis Fulvio, "La Sapienza" University of Rome, Prof . Gubbiotti Stefania, "La Sapienza" University of Rome*

Skills

Advanced IT Knowledge	R (Rstudio, Rmarkdown, Rshiny), Latex, Microsoft Office Suite
Intermediate IT Knowledge	Jags, SAS, SAS Viya, Java, Python
Basic IT Knowledge	Winbugs,Gretl, Neo4j, SQL, Matlab
Languages	Italian (native speaker), English (IELTS C1), Spanish (A2), French (A2)

Teaching and Extra Curriculars Experiences

Winter 2022	**Statistical Decision Theory Assistant**, "La Sapienza" University of Rome Instructor: Prof. De Santis Fulvio

Spring 2022   **Statistical Inference Teaching Assistant**, "La Sapienza" University of Rome
Instructor: Prof. De Santis Fulvio

Spring 2022   **Academic support tutor**, *PLS (Scientific Degrees Project)*, "La Sapienza" University of Rome
Referent: Prof. Gubbiotti Stefania

Spring 2019   **Computer Lab Assistant**, "La Sapienza" University of Rome

Scolarships

2021-2024   **"La Sapienza" University of Rome**, *Three-year Fully-funded PhD Scholarship*

2020   **ERASMUS**, *Scholarship for Université Paris-Dauphine*

Conference presentations

To appear in Jun. 2022   **Italian Statistical Society (SIS)**, *Caserta*
Short paper title: A dynamic Bayesian power prior approach to non-inferiority trials for normal means with unknown variances

Licences and Certifications

Apr. 2021   **IELTS**, *Overall score: 7.5 (C1)*
Listening: 8.5 – Reading: 8.5 – Writing: 6 –Speaking: 7

Sep. 2021   **Machine Learning Using SAS Viya**, *SAS*

Nov. 2020   **Machine Learning**, *Coursera*, Stanford University Online

Feb. 2019   **GMAT**