

Francesco Mariani



Current Position

Nov. 2021 - **"La Sapienza" University of Rome,**
Current *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 **Master in Statistical Sciences**, "La Sapienza" University of Rome, Dept. of Statistical Sciences, Final Mark: 110 cum laude/110
Thesis: A dynamic power prior approach to non-inferiority clinical trials with normal means and unknown variances
Advisor: De Santis Fulvio, Co-advisor: Gubbiotti Stefania

Jul. 2019 **Bachelor in Statistics, Finance and Insurances**, "La Sapienza" University of Rome, Dept. of Statistical Sciences, Final Mark: 110 cum laude/110)
Thesis: The overlap of range-preserving confidence intervals to assess equality of means
Advisor: De Santis Fulvio, Co-advisor: Gubbiotti Stefania

Student Visits

Oct 2022 - **Sponsored Research Fellow**,
Feb 2023 *Dana Farber Cancer Institute of Harvard University*, PI: Trippa Lorenzo
Boston, Massachusetts, USA

Gen 2020- **Erasmus+ Programme**,
Jun 2020 *University of Paris-Dauphine*, Dept. of Mathématiques et Informatique de la Décision et des Organisations,
Paris, France

Teaching and Extra Curriculars Experiences

Winter 2022 **Teaching assistant**, *Subject: Statistical Decision Theory*, 40h scholarship, "La Sapienza" University of Rome
Instructor: De Santis Fulvio

Spring 2022 **Teaching assistant**, *Subject: Statistical Inference*, 20h scholarship, "La Sapienza" University of Rome
Instructor: De Santis Fulvio

Spring 2022 **Academic support tutor**, *PLS (Scientific Degrees Project)*, 6 months scholarship, "La Sapienza" University of Rome
Referent: Gubbiotti Stefania

Spring 2019 **Computer Lab Assistant**, 150h scholarship, "La Sapienza" University of Rome

Scholarships and Awards

2022 **Starting research project grant**, "La Sapienza" University of Rome
2021-2024 **Three-year Fully-funded PhD Scholarship**, "La Sapienza" University of Rome
2020 **Six Months Scholarship**, ERASMUS+

Other Certifications

- Apr. 2021 **IELTS**, Overall score: 7.5 (C1)
- Sep. 2021 **Machine Learning Using SAS Viya**, SAS
- Nov. 2020 **Machine Learning**, Coursera, Stanford University Online
- Feb. 2019 **GMAT**

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)

Projects

- Feb. 2022– Ongoing **Statistical designs for dose finding in drug-combination Phase-I oncology trials**, PI: Trippa Lorenzo, Harvard School of Public Health and Dana Farber Cancer Institute, USA, Co-Advisor: Russo Massimiliano, Harvard Medical School, USA
- May. 2021– Ongoing **Bayesian borrowing of the historical data in a current clinical trial**, Prof. De Santis Fulvio, "La Sapienza" University of Rome, Prof. Gubbiotti Stefania, "La Sapienza" University of Rome

Talks and Conferences

- Jun. 2022 **Italian Statistical Society (SIS)**, Caserta

Publications

Proceedings

- Sep. 2022 **11573/1656190**, 2022, A dynamic power prior approach to non-inferiority trials for normal means with unknown variance (04b Atto di convegno in volume) , Francesco Mariani, Fulvio De Santis, Stefania Gubbiotti