

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, Massachussets, 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

- Spring 2023 **Teaching assistant**, *Subject: Statistical Inference*, 20h scholarship, "La Sapienza" University of Rome
Instructor: De Santis Fulvio
- 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

Other Certifications

- May 2023 **Dose-finding and adaptive methods in clinical research**, *Workshop*, Polytechnic of Turin
- 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. 2023– Ongoing **A priori sample size determination in clinical trials**, *Prof. De Santis Fulvio, "La Sapienza" University of Rome, Prof. Gubbiotti Stefania, "La Sapienza" University of Rome*
- 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