

Ph.D course in Theoretical and Scientific Data Science

Head of the Ph.D course: Prof. Roberto Trotta

Web site: [Theoretical and Scientific Data Science](#)

Research lines:

- Bayesian methods and machine learning
- Theory and applications of neural networks
- Information theory
- Unsupervised segmentation of high-dimensional data
- Statistical modelling of biomedical data and bioinformatics
- Cosmological and astrophysical data analysis and model selection
- Applications of data science to statistical mechanics, neurosciences, and condensed matter physics
- Machine learning applied to Oncology

Fellowships available: 6 (2 on general topics, 3 funded by Human Technopole Foundation, 1 funded by PNRR-Fair Project)

Admission: Academic and scientific qualifications + written exam + oral exam

Beginning of the Courses: 2 October, 2023

Evaluation of academic and scientific qualifications: 10 points

Access to Written Exam: minimum mark of 7/10 on academic and scientific qualifications

Evaluation of Written Exam: 40 points

Access to Oral Exam: minimum mark of 28/40 in the written exam evaluation

Evaluation of Oral Exam: 50 points

Eligibility: minimum mark of 35/50 in the oral exam evaluation

First Session

Deadline for online submission of applications: 17 February, 2023

Written Exam: 6 March, 2023

Oral Exam: 13-17 March, 2023

Second Session (only if there should still be places available after the first one)

Deadline for online submission of applications: 25 August, 2023

Written Exam: 4 September, 2023

Oral Exam: 11-15 September, 2023

Admission to the written exam and results of all evaluations will be notified by email.