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

Fellowships available: 3

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

Beginning of the Courses: 3 October, 2022

<table>
<thead>
<tr>
<th>Evaluation of academic and scientific qualifications: 10 points</th>
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<tr>
<td>Access to Written Exam: minimum mark of 7/10 on academic and scientific qualifications</td>
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<tr>
<td>Evaluation of Written Exam: 40 points</td>
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<td>Access to Oral Exam: minimum mark of 28/40 in the written exam evaluation</td>
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<td>Evaluation of Oral Exam: 50 points</td>
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<td>Total Evaluation: 100 points</td>
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<td>Eligibility: 70 points</td>
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First Session

Deadline for online submission of applications: 21 February, 2022

Written Exam: 7 March, 2022
Oral Exam: 18 March, 2022

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

Deadline for online submission of applications: 29 August, 2022

Written Exam: 5 September, 2022
Oral Exam: 16 September, 2022

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