

## Ph.D course in Mathematical Analysis, Modelling, and Applications

Head of the Ph.D course:

Prof. Massimiliano Berti

Web site:

[Mathematical Analysis, Modelling, and Applications](#)

### Research lines for the “General” PNRR Action:

- Dynamical Systems and PDEs
- Calculus of Variations
- Hyperbolic conservation Laws and Transport problem
- Geometric Analysis
- Geometry and control theory

**Fellowships available:** 1 related to the “General” PNRR Action on one of the above topics;  
1 related to the “Cultural Heritage” PNRR Action on “Mathematical and numerical modelling for large scale simulations in environmental science and geophysics by data-driven methodologies to protect artistic and monumental heritage”;  
1 related to the Digital and Environmental Transitions in the framework of the Double degree in collaboration with TU Eindhoven on “Machine Learning for Turbulence”;

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

**Beginning of the Courses:** 3 October, 2022

**Evaluation of academic and scientific qualifications:** 30 points

**Access to Oral Exam:** minimum mark of 21/30 in the academic and scientific qualifications evaluation

**Evaluation of Oral Exam:** 70 points

**Total Evaluation:** 100 points

**Eligibility:** 70 points

**Deadline for online submission of applications:** 31 August 2022

**Oral Exam:** 7 – 8 September 2022

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