Head of the Ph.D course:	Prof. Massimiliano Berti
Web site:	Mathematical Analysis, Modelling, and Applications
Research lines:	
Conservation Laws	 Inelastic behavior of solids: plasticity, damage,
 Transport Problems 	fracture
Geometric PDEs	 Mechanobiology of the cell and cell motility
 Numerical Analysis of PDEs 	 Mechanics of soft and active materials
Nonlinear Analysis	 Reduced basis methods
Dynamical Systems	 Boundary integral methods and isogeometric
Hamiltonian PDEs	analysis
 Calculus of Variations 	 Fluid-structure interaction problems
Gamma-Convergence and Multiscal	e Analysis • Computational Fluid and Solid Mechanics
• Rate independent evolution problem	• Uncertainty quantification
 Geometric Control Theory 	 Shape optimization
 Sub-Riemannian Geometry 	Flow control
	Machine Learning
Fellowships available: 8	

Admission:

Academic and scientific qualifications + written exam + oral exam

Beginning of the Courses: 3 October, 2022

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

Total Evaluation: 100 points

Eligibility: 70 points

First Session

Deadline for online submission of applications: 10 February, 2022

Written Exam:22 February, 2022Oral Exam:23 February, 2022

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

Deadline for online submission of applications: 23 August, 2022

Written Exam:7 September, 2022Oral Exam:8 September, 2022

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