Mathematics	
Cycle	XXXVIII
Director	Prof. Lorenzo Pareschi – Department of Mathematics and Computer Science – lorenzo.pareschi@unife.it
Duration	3 years
Partner institutions	Università degli Studi di Parma, Università degli Studi di Modena e Reggio-Emilia
Curricula	no
Research Topics	http://www.unife.it/studenti/dottorato/corsi/riforma/matematica
Qualification required for admission	Italian degree known as "Laurea specialistica/magistrale" or a degree awarded prior to approval of Ministerial Decree D.M. n. 509 of 3 November 1999, updated with D.M. n. 270 of 22 October 2004, n. 270; Master's (second level) degree, or an equivalent foreign academic qualification awarded abroad.

Available Positions (total)	**13**

Assessment Criteria		
- Evaluation of qualification: maximum score 40 points; Minimum score required to be admitted to the interview 30/40 **- Interview:** maximum score 40 points - **Minimum final score required: 60/80**		
During the interview, applicant's knowledge of the following languages will be tested.		English
Online interview for candidates living abroad		yes
List of documents for the evaluation		
Curriculum vitae et studiorum	Complete academic career information (including eventual abroad periods, research activities in universities public or private companies, working activities and internships, participation in schools, seminars, meetings) including the list of examinations and grades and final mark, for Bachelor and Masters degrees.	Up to 6 points
Master degree thesis	3 to 6 pages-summary of the thesis, either in Italian or English, following these focal points: motivation of the thesis, methods of research, results.	Up to 12 points
Statement of research interest	Short text - maximum length: 4 pages -in English or in Italian, which must contain the motivations to attend the Ph.D. programme and the candidate's specific research interests, and a proposal of a possible research project (motivations, research methodology, relevance, expected results) which will not be binding to the future Ph.D. thesis choice.	Up to 14 points
Reference letters	Maximum 2 letters, supporting the application, written and signed by teachers, experts, researchers or professionals, qualified on the course topics.	Up to 5 points
Other titles	Academic and working experience; language certifications; publications (including abstracts and/or works presented at meetings)	Up to 3 points
Interview		
Discussion over the candidate's scientific interests, focusing specifically on the activities relating to the thesis, as well as the candidate's scientific titles and eventual publications. The candidate's English language knowledge will be tested by reading and translation of a brief scientific text.		
Examination timetable		
Evaluation of qualifications and interview will take place within the 16th of September. Evaluations' results may be checked at the following link: http://www.unife.it/studenti/dottorato/concorsi/selection.		

The beginning date for consulting the evaluations' results and the interview schedule will be available within the present call deadline at the following page http://www.unife.it/studenti/dottorato/concorsi/commissioni

Available Positions and kind of financial support		
N°	*Kind of Financial Support*	*Research subject*
3	Università di Ferrara	
3	Università di Parma	
3	Università di Modena e Reggio-Emilia	
1	Funded by Università degli Studi di Modena e Reggio-Emilia (Reserved for students in international mobility programmes) project: **ERC-2021-STG**: Anosognosia and delusions in the diseased brain	Dynamic causal modeling of brain activity to uncover specific neurophenotypes of dementia associated with anosognosia and delusions
1	Positions without fellowship	
2	Positions reserved to candidates belonging to specific categories	Reserved positions for candidates holding a foreign government scholarship or a scholarship funded by international mobility programmes

Positions deriving from DD.MM. 351/2022 and 352/2022		
N°	*Kind of Financial Support*	*Research subject*
1	Università di Ferrara - Fondi D.M. 351/2022 (PNRR Research doctorates line of investment - M4C1 I. 4.1)	Physics-informed neural networks with applications to socio-epidemiological dynamics
1	Co-funded by Università di Ferrara – Fondi D.M. 352/2022 M4C2 I. 3.3 and INMANIBUSMEIS (IN MM srl)	Artificial Intelligence and E-HealthTechniques applied to Proprietary Platforms for Aid and Assistance in Telemedicine