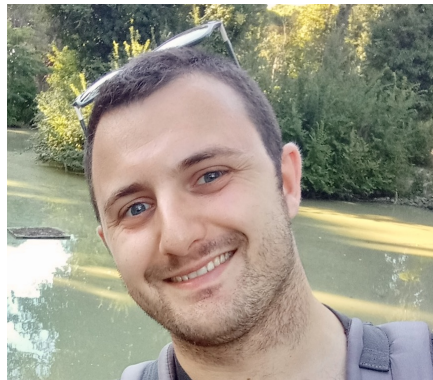




CURRICULUM
VITAE
FRANCESCO M.
BENFENATI



Personal information

Name / Surname
Address
Email
Nationality
Birth

BENFENATI FRANCESCO MARIA
Minerbio (BO), Italy
francesco.benfenati@cmcc.it
Italian
5th of August 1997, Modena (MO), Italy

Education and training

Nov 2022 - now
Jan 2025 - Apr
2025
February 2023
October 2022

PhD student of the 38th cycle: *Future Earth, Climate Change and Societal Challenges*, University of Bologna. Affiliated to CMCC.
Visiting student at Massachusetts Institute of Technology (MIT), Department of Mechanical Engineering, Cambridge MA (USA).
Achievement of the Basic Instruction Package for Meteorologists, as defined by the World Meteorological Organization (WMO).
Master's Degree *cum Laude* in *Physics of the Earth System*, University of Bologna, with thesis in *Physical Oceanography Submesoscale Features in Regions with Different Baroclinic Deformation Radius*.

March 2020	Bachelor's Degree in Physics at University of Bologna with thesis in Physical Oceanography <i>Statistical Analysis of Oceanographic Extreme Events</i> .
July 2016	Scientific High School Diploma at <i>Liceo Scientifico Statale N. Copernico</i> in Bologna.
Research experiences and Projects	
Feb 2023 - now	Developing a new version of the MEDSLIK-II oil spill model and software.
Apr 2022 - now	Free access project: a repository on GitHub (click here) for computing the baroclinic Rossby deformation radius in an ocean region of interest.
Mar - Sept 2022	As <i>Physics of the Earth System</i> student, master thesis about ocean submesoscale dynamics in the Northern Atlantic ocean.
Jul 2019 - Mar 2020	As <i>Physics</i> student, bachelor thesis about Significant Wave Height extreme events in the Mediterranean sea.
Languages proficiency	
Languages	Italian (mothertongue), English (B2).
March 2016	<i>First Certificate in English</i> (FCE), level B2, at Cambridge English Language Assessment. Reading B2 Listening B2 Speaking B2 Use of English C1 Writing: B2 Total Score 176/190
May 2011	<i>Key English Test</i> (KET), level A2, at Cambridge English Language Assessment.
Computer skills	

Programming	Deep knowledge of Fortan, Python, MATLAB and L ^A T _E X. Deep knowledge of Object-Oriented Programming. Good knowledge of Unix-like Operating systems and Bash language.
Other	Usage of HPC cluster, DIFA, UniBo. Basic knowledge of C++, OpenOffice and Microsoft Office packages. Basic knowledge of NEMO ocean model. Good Knowledge of NEMO-based SURF platform. Good knowledge of numerical methods for ODEs, PDEs.
Personal skills	
Interpersonal relationships	Due to my training as a Scout chief in AGESCI association, during the last years: Team working, leadership, decision-making and planning skills. Attention to issues such as coeducation and gender equality in co-leadership.
Additional information	
Music	Good knowledge of doublebass/electric bass playing, due to the six years attendance of Music Conservatory in Bologna.
Volunteering activities	Volunteering activities at <i>Istituto Penale Minorile</i> and <i>Comunità per minori non accompagnati del Villaggio del Fanciullo</i> , in Bologna. At present, Scout Chief in AGESCI association.
Driving license	Driving License B (for cars).
Hobbies	Running, Trekking, Nature. Vegetable garden. Basic sailing.
Marital status	Married.