

Muhammad Saad

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D: <https://orcid.org/0000-0001-6326-4212> | **Address:** Bologna, Italy (Work)

● WORK EXPERIENCE

 **EURO-MEDITERRANEAN CENTER ON CLIMATE CHANGE (CMCC)** – BOLOGNA, ITALY
POST DEGREE IN OCEAN MODELLING – 03/11/2025 – CURRENT

● EDUCATION AND TRAINING

04/2023 – 03/11/2025 Lecce, Italy
RESEARCH FELLOW Euro-Mediterranean Center on Climate Change (CMCC)

PhD Researcher (Joint Appointment) between Unibo and CMCC

11/2022 – CURRENT Bologna, Italy
PHD FUTURE EARTH CLIMATE CHANGE AND SOCIETAL CHALLENGES (PHYSICAL OCEANOGRAPHY)
University of Bologna

2022 – 2022 Trento, Italy
POST-GRADUATE HONORS PROGRAM IN MODELLING & SIMULATION University of Trento

Address Department of Civil, Environmental and Mechanical Engineering, Trento, Italy

2019 – 2021 Islamabad, Pakistan
MASTER OF SCIENCE IN THERMAL ENERGY ENGINEERING National University of Sciences and Technology

Address U.S.-Pakistan Center for Advanced Studies in Energy, Islamabad, Pakistan

2013 – 2017 Islamabad, Pakistan
BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING Air University

Address Department of Mechanical & Aerospace Engineering, Islamabad, Pakistan

● PUBLICATIONS

2022
[Evaluation of possible integration of solar chimney power plants with high-rise buildings: A numerical analysis](#)

Publisher: Elsevier

Journal of Building Engineering

2022
[Performance enhancement of solar updraft tower plant using parabolic chimney profile configurations: A Numerical Analysis](#)

Publisher: Elsevier

Energy Reports

● JOURNAL CONTRIBUTIONS

Peer Review

Journal: Physics of Fluids
ISSN: 1089-7666
Role: Reviewer
Date: 2022
Publisher: American Institute of Physics (AIP)

Peer Review

Journal: Solar Energy
Role: Reviewer
Date: 2022
Publisher: Elsevier

SKILLS

Ocean modelling | NEMO | Python | Git | Matlab | SolidWorks | Techplot | Pointwise | Linux | Bash shell script | Paraview | ANSYS & Fluent Meshing

AREA OF INTEREST

Interests

- 1. Inter-annual and decadal variability of the Mediterranean Sea
- 2. General Circulation
- 3. Climate Tipping Points and Early Warning Signals

LANGUAGE SKILLS

Mother tongue(s): URDU

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user