CONTACT

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SOCIAL

in R^G 🐦

Maria Vittoria Guarino

CURRICULUM VITAE

RESEARCH & WORK EXPERIENCE

Research Scientist   *Feb 2025 – present*
ENEA
Climate Modelling Division
SSPT-CLIMAR
Rome (IT)

Research Fellow   *Sep 2022- Feb 2025*
International Centre for
Theoretical Physics,
Earth System Physics,
Trieste (IT)

Research Fellow   *Sep 2020- Sep 2022*
University of Leeds,
Faculty of Engineering & Physical
Sciences,
Leeds (UK)

Earth System Modeler   *Sep 2017- Sep 2020*
(PDRA)
British Antarctic Survey (BAS),
Cambridge (UK)

PhD Student   *Apr 2014 - Aug 2017*
Department of Meteorology
University of Reading, Reading (UK)

Visiting Researcher
NCAR - Aviation Applications Program   *October 2016*
Boulder (CO)

Research Intern   *Summer 2013*
Atmospheric Modelling group
CIEMAT, Madrid (ES)

Research Intern   *Summer 2011*
Applied Geophysics Lab
Università del Salento, Lecce (IT)

EDUCATION

PhD in Atmosphere, Oceans and Climate *2014-2017*
University of Reading, Reading (UK)
Thesis: Mountain wave breaking in atmospheric flows
with directional wind shear
Supervisors: Dr. Miguel Teixeira, Prof Maarten Ambaum
Examiners: Prof Paul Williams (UoR) and Dr. Andreas
Dörnbrack (DLR, DE)

MSc in Environmental Science (cum laude and honorable mention) *2011-2013*
Università del Salento, Lecce (IT)
Thesis: Simulations of urban heat island in the city of
Lecce using the WRF model.
Supervisors: Dr Silvana di Sabatino (UoS), Dr Alberto
Martilli (CIEMAT, ES)

BSc in Environmental Science (cum laude and honorable mention) *2008-2011*
Università del Salento, Lecce (IT)
Thesis: Seismic characterization of some areas of Salento
using Vs30.
Supervisors: Prof Sergio Negri, Prof Tatiana Quarta,
Dr. Stefano Margiotta

RECOGNITIONS & AWARDS

Honorary Research Fellow at the British Antarctic Survey – title awarded to scientists who have attained considerable distinction in science and have a continuing close association with BAS. From September 2020 onwards.

TEACHING and SUPERVISING

- 2023-2024 – Data Analysis course as part of the ICTP Postgraduate Diploma Programme in Earth System Physics. Part of the 'Numerical Methods and Data Analysis in Geosciences' course.
- 2021-2022 - Supervisor of Master of Chemistry student Grace Dunleavy (University of Leeds) on the research project: "A database of noctilucent clouds observations for climate model validation".
- 2020-2021 - Co-supervisor of Rachel Diamond (physics student at Imperial College, London) on a research internship at BAS working on melt ponds and sea ice during Last Interglacial Period.
- 2019: Supervisor of the GW4+DTP research project "Understanding a changing world: studying the decline of Antarctic sea ice", student: Jack Arnatt, BAS.
- 2018: Supervisor of the SPITFIRE DTP research project "Our Heritage and Future: Retreat of Antarctic sea ice", student: Andrea Becsek, BAS.
- 2018 – 2022: Co-supervisor of PhD Project "Reconstructions of Antarctic sea-ice at the peak of the last interglacial", student: Matthew Chadwick, BAS.
- 2016-2017: Teaching assistant for the MSc course "Numerical modelling of Atmosphere and Oceans". University of Reading, Department of Meteorology.

OTHER ROLES and QUALIFICATIONS

- National Scientific Qualification for Associate Professor in GEOPHYSICS and EARTH and PLANETARY PHYSICS / Abilitazione Scientifica Nazionale Professore Associato GEOFISICA (04/A4) e FISICA DELLA TERRA E DEI PIANETI (02/C1).
- 2020, 2024, 2025: Co-convener of the EGU General Assembly "Mountain Weather and Climate" session, Vienna (AU).
- 2024: Instructor for the ICTP NORP-SORP Summer School and Workshop on Polar Climates, 22-31 July, Trieste (IT).
- 2020: Contributing author to the Coupled Model Intercomparison Project (CMIP6) multi-model ensemble.
- 2018: Organizer of the Cambridge Centre for Climate Sceince (CCfCS) Numerical Modelling Workshop.
- 2016: Organizer of the University of Reading PhD visiting scientist week. 2016 visiting scientist: Richard Rotunno, NCAR, Boulder (CO).