



Roberto Buizza

Roberto Buizza has been serving as Scientific Attaché' at the Italian Embassy in London since the 1st of February 2022. He has a degree in Physics from the Univ. of Milano, a PhD in Mathematics from Univ. College London, and a Master in Business Administration from London Business School. After 4 years at the Centro di Ricerca Termica e Nucleare of the Electricity Board of Italy (CRTN/ENEL), in 1991 he joined the European Centre for Medium-Range Weather Forecasts (ECMWF), where he had been a key developer of the ECMWF prediction systems, and served as Head of the Predictability Division and Lead Scientist. In November 2018 he joined 'Scuola Superiore Sant'Anna' of Pisa, as Full Professor of Physics, where he established the Centre on Climate Change studies and Sustainable Actions (3CSA), with the support of the Scuola Superiore Sant'Anna and Scuola Normale Superiore of Pisa, and Istituto Studi Superiori IUSS of Pavia. From January 2022 he has been appointed Honorary Research Fellow at Imperial College. Expert in weather prediction, ensemble methods and predictability, he has 235+ publications, of which 110+ in peer-reviewed journals (SCOPUS h-index 47; Goggle Scholar h-index 61).

PERSONAL INFORMATION

- Research unique identifiers: ORCID: 0000-0002-3754-2271 - Scopus: 35566896300
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CURRENT POSITION

Scientific Attaché' at the Italian Embassy in London. Full Professor of Physics at Sant'Anna Advanced School of Studies; Honorary Research Fellow in the Imperial College Grantham Institute for Climate Change, London.

PUBLICATIONS

232 publications, of which 111 in international, indexed, peer-reviewed journals (20% sole author; 43% first author, 40% corresponding author) and 12 contributions to books. Publication statistics:

- Google Scholar: **h-index 61**; citations 16,255;
- Researchgate: **h-index 58**; citations 13,646;
- ISI Web of Science: **h-index 49**; citations 8,493;
- Scopus: **h-index 47**; citations 8,703.

INTERESTS

Climate change, predictability, coupled Earth-system modelling, probabilistic methods, weather prediction, impact of climate change, ensemble methods.

ACHIEVEMENTS in the past 3 years

- Established the 3CSA research centre with the support of Scuola Superiore Sant'Anna and Scuola Normale Superiore of Pisa, and Istituto Studi Superiori IUSS of Pavia
- Designed and coordinated a new, national PhD program on sustainability and climate change, started on 1 November 2021 (30 Universities, 105 scholarships per year)
- Developed and implemented the European Centre for Medium-Range Weather Forecasts (ECMWF) ensemble, the best medium-range prediction system in the world
- Member of International Advisory Boards: Environment and Climate Change Canada (2021), Australian Bureau of Meteorology (2018/2019), Centre for Climate Research of Singapore (2017/2021), UK Meteorological Office (2019/2021)
- Awarded the '2020 Bert Bolin Climate Lecture' and '2020 Bert Bolin Science Seminar', University of Stockholm (lectures delivered every year by a distinguished climate scientist)
- Included in the 2020 'Stanford University list of the top 2% scientist in the world'
- Appointed Full Professor in Physics with a "Chiamata Diretta per Chiara Fama"
- Awarded the 2002 Buchan Prize by the U.K. Royal Meteorological Society for outstanding scientific contributions in the field of probabilistic numerical weather prediction