

## Erika Coppola - Curriculum Vitae Summary

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### Personal Information:

- **Date of Birth:** [REDACTED]

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### Education:

- **B.S./M.S. in Physics**, University of L'Aquila, Italy (1992–1998)
  - Thesis: Application of Neural Network to blocking recognition and prediction
- **Ph.D. in Meteorology**, University of Reading, UK (2004)
  - Thesis: Investigation of neural network algorithms for rainfall estimation

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### Current Position:

- **Research Scientist**, Earth System Physics Section, ICTP, Trieste, Italy (2010–Present)
  - Focus on high-resolution regional climate modeling
  - Topics include:
    - climate change impact on convective system;
    - land-atmosphere interactions;
    - Monsoon climate;
    - regional hydrological cycle;
    - climate extremes and hazards;
    - climate variability and change;
    - flood risk estimation.
    - attribution of extreme events to climate change
    - machine learning for high resolution regional climate emulator

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### Previous Employment:

- **Post-Doc Fellow**, ICTP, Trieste (2006–2010)
- **Research Assistant**, CETEMPS, University of L'Aquila (2004–2006)
- **Research Fellow**, CINECA & ICTP (2003–2004)
- **Ph.D. Research Fellow**, University of Reading (2000–2003)
- **Research Fellow**, University of L'Aquila (1999–2000)

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### **International Research Experience:**

- ECMWF (UK), Reading University (UK)

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### **Teaching Experience:**

- Lecturer for ICTP's Earth System Physics Diploma Course and University of Trieste
- Subjects: Numerical Methods, Environmental Data Analysis, Hydrology, Climate Dynamics, Earth System Modelling

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### **Scientific Event Organization:**

- Co-director/organizer of over 30 international workshops, summer schools, and conferences from 2005 to 2024
- Topics include water resources, regional climate modeling, AI in climate science, and climate services

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### **Awards and Recognitions:**

- 1999 Regione Abruzzo Fellow for young Researcher;
- 2000 Fellow from British Council and Italian Ministry of the University and Scientific Research THE BRITISH-ITALIAN PARTNERSHIP PROGRAMME FOR YOUNG RESEARCHERS
- 2000 Best Presentation Award at Italian Physical Society Congres
- 2025 Motumundi prize for the scientific work done for the protection of the environment and the climate.

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### **Supervision:**

- Supervised and co-supervised numerous MSc and PhD theses and Post-doctoral researchers
- Fields: regional climate modeling, hydrology, AI for climate extremes, high resolution km scale climate modelling, regional coupled Earth system modelling.

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### **Major Scientific Projects (Selected):**

- European Union (EU): PRUDENCE, ENSEMBLES, CECILIA, ACQWA, CLIMRUN, EUCP, XAIDA, I4C, LIQUIDICE

- CORDEX SAT member; Steering the CORDEX-CORE task force and the Med-CORDEX initiative; participating to the Euro-CORDEX;
- Italian PNRR: RETURN
- IPCC AR6 WGI LA, Coordinating author of the Technical Summary and Summary for Policy Maker of the WGI AR6 IPCC report
- IPCC AR7 WGI Coordinating Lead Author.

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### **Editorial and Reviewer Roles:**

- Editor: Regional Environmental Change, Earth Systems and Environment
- Reviewer for top journals including Nature Climate Change, GRL, Climate Dynamics

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### **Grants (Selected):**

- ACQWA €200,000
- EUCP €500,530
- XAIDA €427,541
- I4C €400,000
- LIQUIDICE €427,541
- RETURN €461,698

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### **Publications and Presentations:**

- Over 120 peer-reviewed papers
  - <http://scholar.google.it/citations?user=5dYIf4IAAAAJ&hl>
  - Research gate profile [https://www.researchgate.net/profile/Erika\\_Coppola](https://www.researchgate.net/profile/Erika_Coppola)
  - ORCID <https://orcid.org/0000-0001-6944-5815>
  - Scopus <https://www.scopus.com/authid/detail.uri?authorId=12042092500>
  - several book chapters and editor on one book.
- Over 50 invited talks, 100+ contributed talks, and 10 keynotes

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### **Languages:**

- Italian (native), English (fluent), German (basic)

### **Technical Skills:**

- Programming: Fortran95, Python, MATLAB
- Platforms: Unix, Windows, Linux, MacOS
- Tools: GRADS, NCL, NCO, LaTeX

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**Social Media:**

- Active on Facebook, Instagram, LinkedIn, Twitter, and Bluesky for science communication

Erika Coppola



Trieste, Januray 22, 2026