

# Nicola Cortesi

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## *Curriculum Vitae*



## PERSONAL DATA

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Born: Trescore Balneario (Bergamo, Italy) on 24-05-1978  
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Marital Status: Single  
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h-index: 17 (Google Scholar)

## LANGUAGES

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1. Italian (mother tongue)
2. English (very good oral and written skill)
3. Spanish (very good oral and written skills)
4. French (basic oral skill, basic written skill)
5. Portuguese (basic written skills)

## IT SKILLS

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- OS: Linux, Windows.
  - Programming: R, Fortran, CDO, NCL, IDL.
  - Database: NCO, SQL.
  - GIS: ESRI ArcGIS, GRASS GIS.
  - Scripting: BASH Shell, AWK.
  - Typography: LaTeX, MS Word.
  - Editors: Emacs, Vim.
  - Others: C/C++, MS VB/VBA.
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## COMPETENCES

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- Excellent understanding of statistics and geostatistics, particularly handling the numerical algorithms for climate analysis: univariate and multivariate analysis (PCA, OLS, GLM, cluster analysis, stepwise multiple regression, logit models), parametric and non-parametric tests, statistical downscaling, bias-correction, weather types and regimes, leave-one-out cross-validation, spatial interpolation, bootstrapping and extreme climate indices.
- Very long experience in handling, analysing, visualising and communicating large climate datasets, and in the assessment of the output of Global and Regional Circulation Models, seasonal and sub-seasonal Forecasting Systems.
- Extensive practice with R on big data analysis, data pre and post-processing, generation of automatic cartographies using R as a GIS, high performance programming on MareNostrum supercomputer.

## FORMATION

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2022-present	Lecturer of 'IT for Tourism Services', a course of the Master in Planning and Management of Tourism Systems (PMTS) at the 'Università degli Studi di Bergamo' (UniBg). Master director: Dr. Federica Burini.
2015-2021	7-years Postdoctoral research at Barcelona Supercomputing Center (BSC) on improving predictability of atmospheric circulation at S2S scale and on bias-correction and verification of S2S Forecasting Systems. Postdoctoral director: Dr. Francisco Doblas-Reyes.
2015	3-months postdoctoral research at Institut Català de Ciències del Clima (IC3) on the evaluation of climate change impact on grape production in Chile. Postdoctoral director: Dr. Francisco Doblas-Reyes.
2014-2015	15-months postdoctoral research at CERFACS - Meteo France (Toulouse) on the Statistical Downscaling of Precipitation in Europe (SPECS Project, Working Package 5.2). Postdoctoral director: Dr. Christian Pagé.
2011-2013	3-years International PhD Thesis at Geography Department of Zaragoza University. Mark: Cum laude (highest in Spain). Thesis title: "Precipitation Variability in the Iberian Peninsula". Thesis director: Dr. José Carlos González-Hidalgo.
2009-2010	1-year Master at Zaragoza University, Spain. Mark: 98/100. Geographical Information Technologies for land organization: Geographical Information Systems and Teledetection. Project title: "Monthly precipitation quality controls with Geographical Information Systems (GIS) and interpolation techniques". Thesis director: Dr. Michele Brunetti.
2008	1-year stage at CESI RICERCA – Environment Department (Milano) on detecting Italian temperature changes and their impact on national electric demand. Stage director: Dr. Francesco Apadula.
2007	Degree in Atmospheric Physic at Milan University. Mark: 110/110. Thesis project on "Variability and change of the precipitation frequency distribution in central-northern Italy during last 120 years". Thesis director: Dr. Maurizio Maugeri.

Data: 28/8/2023

Firma

