

# Europass Curriculum Vitae

## **Personal information**

Surname(s) / First name(s) Email(s) Nationality(-ies)

### Desired employment/ Occupational field

### **Education and training**

#### Dates

Title of qualification awarded Principal subjects/Occupational skills covered Name and type of organization providing education and training

Dates

Title of qualification awarded Title of thesis Principal subjects/Occupational skills covered

Name and type of organization providing education and training

Dates Title of qualification awarded

Name and type of organization providing education and training

### Dates

Title of qualification awarded Title of thesis Principal subjects/Occupational skills covered Name and type of organization providing education and training

### Cerrai, Diego

diego.cerrai@uconn.edu; Italian

### Forecaster, Modeler Meteorology, Hydrology, Climatology, Data Mining, Outage Prediction

08/2015 - current Ph.D. Candidate in Environmental Engineering Hydrology, Climatology, Statistics, Environmental Chemistry, Data Mining, Remote Sensing, Transport in soil, water and atmosphere University of Connecticut

09/2012 - 06/2015 Master in Physics of the Earth System Moisture and potential vorticity in medicanes: theoretical approach and case studies Physics and Chemistry of the Atmosphere, Climatology, Geophysics, Hydrology, Oceanography, Physics of Clouds, Radiative Transfer, Dynamic and Synoptic Meteorology University of Bologna

02/2015, 9-13 Course on Probability and uncertainty: two concepts to be expanded in meterology. Certificate of attendance ARPA-SIMC, Bologna

09/2008 - 10/2012 Bachelor in Physics Bealization of a hot-wire anemometer for mea

Realization of a hot-wire anemometer for measuring the velocity profile of a fluid Physics, Chemistry, Mathematics, Informatics

University of Pisa

## Work experience

European level <sup>(*)</sup>	Listening	Reading	Spoken	Spoken		
Self-assessment	Understa	nding	Spea	king	Writing	
Other language(s)	English, German					
Mother tongue(s)	Italian					
Personal skills and competences						
	Department of Environmental Engineering, UConn: Pre-Doctoral Fellowship Award, Fall 2017					
	Atmospheric Research: Certificate of Outstanding Contribution in Reviewing, 2017					
Awards						
Reviewer for	Advances in Meteorology Atmospheric Research					
Technical Committee	American Geophysical Union (AGU) Hydrology - Precipitation Technical Committee					
Scientific Committee Assignments						
	Miglietta, M. M., D. Cerrai, S. Laviola, E. Cattani, and V. Levizzani, 2017: Potential vorticity patterns in Mediterranean "hurricanes", <i>Geophys. Res. Lett.</i> , <b>44</b> , 2537-2545, doi:10.1002/2017GL072670.					
	Wanik, D.W., E.N. Anagnostou, M. Astitha, B.M. Hartman, G.M. Lackmann, J. Yang, D. Cerrai, J. He, and M.E. Frediani, 2018: A Case Study on Power Outage Impacts from Future Hurricane Sandy Scenarios, <i>J. Appl. Meteor. Climatol.</i> , <b>57</b> (1), 51-79.					
Description	Cioni, G., Cerrai, D., and Klocke, D., 2018. Investigating the predictability of a Medite ranean Tropical-like Cyclone using a storm-resolving model. <i>Q. J. Royal Meteor</i> <i>Soc.</i> <b>144</b> (714), 1598-1610.					
Scientific publications in international journals						
Name and type of organization	Eversource Energy Center, University of Connecticut					
Occupational skills covered	Predictive Analytics, Data Assimilation, Data Mining, Operational System Develop- ment					
Dates Work Description	08/2015 - Present Research Assistant Responsible for the University of Connecticut Outage Prediction Model (UCONI OPM) research and development (R&D)					
Datas	09/2015 Procept					

Understanding		Spea	Writing		
Listening	Reading	Spoken Spoken interaction production			
C1	C2	C1	C1	C1	

English

German	Common Europe	A2	A1	A1	A2		
Social skills and competences	<sup>(*)</sup> Common European Framework of Reference (CEF) level natural attitude to work as a team member						
Organisational skills and competences	prioritizing (organization of work tasks providing different levels of priority); have full control of work and targets						
Technical skills and competences	experience in weather modelling, outage prediction, remote sensing, handling large datesets, graphical visualisations						
Computer skills and competences	good knowledge and skills of MATLAB and R, used to create new operational predic- tive frameworks and to develop new techniques to visualize model outputs knowledge of GrADS, C++, TINA-TI, LabVIEW knowledge of scripting languages (Unix) and word processors (Microsoft Office, LATEX) basic level use of IDL, Fortran, ArcGIS						
Additional information							
	Conferences						
	Cioni, G., Cerrai, D., Ricchi, A., Anagnostou, E., Nikolopuolos, E., Carniel, S., Bonaldo D., and Borga, M.: Investigating the predictability of a Mediterranean Tropical-like Cyclone using a non-hydrostatic high-resolution model. <i>EGU General Assembly 2018</i> , Vienna, 8 - 13 Apr.						
	Cioni, G., Cerrai, D., and Klocke, D.: Investigating the predictability of a Mediterranear Tropical-like Cyclone using a non-hydrostatic high-resolution model. <i>EGU General</i> <i>Assembly 2018</i> , Vienna, 8 - 13 Apr.						
	Cerrai D., E. N. Anagnostou, J. Yang, M. Astitha: Predicting Power Outages Usin Multi-Model Ensemble Forecasts. <i>American Geophysical Union, Fall General Assenbly 2017</i> , New Orleans (LA), 11 - 15 Dec.						
	Cerrai D., E. N. Anagnostou, D. W. Wanik, M. A. E. Bhuiyan, X. Zhang, J. Yang, M. Astitha, M. E. Frediani, C. S. Schwartz, M. Pardakhti: Enhanced outage prediction modeling for strong extratropical storms and hurricanes in the Northeastern Unite States. <i>American Geophysical Union, Fall General Assembly 2016</i> , San Frascisco (CA), 12 - 16 Dec.						
	Laviola S., M. M. Miglietta, D. Cerrai, E. Cattani, V. Levizzani, 2016: Potential vorticity patterns in Mediterranean hurricanes. <i>EGU General Assembly 2016</i> , Vienna, 17 - 22 Apr.						
	Miglietta, M. M., D. Cerrai, S. Laviola, E. Cattani, V. Levizzani, W. Kim, S. K. Park, C. Cassardo, A. Ricchi, and S. Carniel, 2015: Analysis of an intense tropical-like cyclone over the western Mediterranean Sea through a combined modeling and satellite ap proach. <i>ECSS2015</i> , Wiener Neustadt, 14-18 Sept.						
	Levizzani, V., M. M. Miglietta, D. Cerrai, S. Laviola, E. Cattani, W. Kim, S. K. Park, C. Cassardo, A. Ricchi, S. Carniel, 2015: Analysis of an intense tropical-like cyclone over the western Mediterranean Sea through a combined modeling and satellite approach. <i>Taipei Severe Weather and Extreme Precipitaion 2015</i> , Taipei, 25 - 27 May.						
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