

PERSONAL INFORMATION

Paola Nassisi

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🌐 <http://www.cmcc.it/people/nassisi-paola>

Sex: Female | Date of birth: 25/10/1980 | Nationality: Italian

WORK EXPERIENCE

02/2012 – Present

Post doc

ASC – Advanced Scientific Computing Division
Euro-Mediterranean Center on Climate Change Foundation (CMCC), Lecce (Italy)

www.cmcc.it

Main projects and related activities she is and has been involved in:

IS-ENES3 - Infrastructure for the European Network for Earth System modelling Phase 3

Design and development of a set of specific web compute services supporting multi-model data analysis for climate evaluation diagnostics, as well as definition of a local large climate data pool integrated into the ENES CDI replication infrastructure.

CITRUS

Development of a web dashboard, through the Thingsboard IoT platform, visualizing the status of some citrus crops in Sicily and Sardinia (Italy) for the optimization in the use of resources (e.g. water, energy) and the maximization of productivity in citrus farming.

OFIDIA - Operational Fire Danger prevention pLATFORM 2

Graphic design of an iOS mobile application for fire danger prevention. Building, testing and submission of the application to the App Store.

INDIGO Data Cloud - Integrating Distributed data Infrastructures for GlobalExpLOitation

Development of a scientific gateway able to submit a workflow for the multi-model analysis, exploiting the underlying distributed data analytics infrastructure. Unit tests and code coverage development.

EUBrazilCC - EUBrazil Cloud Connect

Development of a scientific gateway for the visualization of climate observational data, multi-model analysis submission and results visualization through interactive maps and charts. Implementation of the front-end of a monitoring system for the underlying data analysis infrastructure.

IS-ENES2 - Infrastructure for the European Network for Earth System modelling Phase 2

Contribution to a distributed monitoring architecture for the Earth System Grid Federation. Design and implementation of a data warehouse system, a REST API service and aggregated views to visualize local and global data usage statistics.

TESSA - TEchnologies for the Situational Sea Awareness

Software solutions for the optimized access and management of scientific data archive. Customization of tools for the dissemination of scientific data (Earth System Grid Federation (ESGF), MyOcean, GeoNetwork).

Other activities

Climate indicators computation and operational chains on HPC systems.

Business or sector Visual analytics web tools and services; scientific workflows.

EDUCATION AND TRAINING

October 2011

MSc in Computer Engineering

110/110 magna cum
laude

University of Salento, Lecce, Italy - Thesis: "Ophidia: a high-performance computing system for the management of relational databases"

October 2007

BSc in Software Engineering

107/110

University of Salento, Lecce, Italy - Dissertation: "Progettazione e sviluppo di un'architettura di meta-programmazione per web marketplace" (Design and development of a metaprogramming architecture for the web marketplace)

PERSONAL SKILLS

Mother tongue Italian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B1	B2	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Computer skills

Java (Struts and Spring), Python, Javascript and Ajax, Google API, HTML, CSS, Bash, MySQL, PostgreSQL, Apache Tomcat, Git versioning, Maven, ANT, MS Windows, CentOS, Apple OSX

ADDITIONAL INFORMATION

Publications

Salomoni D., Campos I. et al., "INDIGO-DataCloud: a Platform to Facilitate Seamless Access to E-Infrastructures", 2018, J. Grid Comput., DOI: 10.1007/s10723-018-9453-3

Elia D., Nuzzo A., Nassisi P et al., "A Science gateway for biodiversity and climate change research", 2017, PeerJ Preprints, DOI: 10.7287/peerj.preprints.2834v1

Fiore S., Elia D., Blanquer I. et al., "BioClimate: A Science Gateway for Climate Change and Biodiversity research in the EUBrazilCloudConnect project", 2017, Future Generation Computer Systems, DOI: <https://doi.org/10.1016/j.future.2017.11.034>

D'Anca A., Conte L., Nassisi P. et al., "A multi-service data management platform for scientific oceanographic products", 2017, Natural Hazards and Earth System Sciences, 17, 171-184, 2017, DOI: 10.5194/nhess-17-171-2017

Coppini G., Marra P. et al., "SeaConditions: A web and mobile service for safer professional and recreational activities in the Mediterranean Sea", DOI: 10.5194/nhess-17-533-2017

Mannarini G., Turrisi G., D'Anca A. et al., "VISIR: technological infrastructure of an operational service for safe and efficient navigation in the Mediterranean Sea 2016, Natural Hazards and Earth System Sciences", 16, 1791-1806, DOI: 10.5194/nhess-16-1791-2016, 2016

S. Fiore, M. Mancini, D. Elia, P. Nassisi et al., "Big data analytics for climate change and biodiversity in the EUBrazilCC federated cloud infrastructure", ACM International Conference on Computing Frontiers 2015, May 18-21, 2015, Ischia, Italy, 52, pp. 1-8

S. Fiore, A. D'Anca et al., "Big data analytics workflow management for eScience" – in Proceedings of European Geosciences Union General Assembly 2015, 12-17 April 2015, Wien, Austria

S. Fiore, A. D'Anca et al., "The Ophidia framework: toward big data analytics for climate change", Climate data: management & analysis, SISC 2nd Annual Conference, Venezia, Italy, September 29-30, 2014

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