

## PERSONAL INFORMATION

Alessandro D'Anca

## WORK EXPERIENCE

August 2018 – Present

**CMCC Scientist position**

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

October 2018 - Present

**Director of the Advanced Scientific Computing Division**

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

**Coordination and management of the Advanced Scientific Computing Division at the Euro-Mediterranean Center on Climate Change.**

Involvement in many international projects such as:

H2020 EOSC-hub, H2020 EUBra-BIGSEA, H2020 INDIGO-DataCloud, H2020 Primavera

January 2015 – September 2018

**Scientific Data Management Research Group Leader**

Euro-Mediterranean Center on Climate Change (CMCC) Foundation  
ASC (Advanced Scientific Computing) Division, Scientific Data Management Research Group

**Coordination of the Scientific Data management activities within the Advanced Scientific Computing Division at the Euro-Mediterranean Center on Climate Change.**

December 2014 – Present

**MARSOP4 CMCC Scientific Officer**

Euro-Mediterranean Center on Climate Change (CMCC) Foundation  
ASC (Advanced Scientific Computing) Division, Scientific Data Management Research Group

**Coordination of the technical and scientific activities of the “MARSOP4 - Supporting the MARS Crop Yield Forecasting System” - Lot4: “Websites and Viewers to display contents of the JRC-MARSOP4 data warehouse”- European Commission, JRC Joint Research Centre.**

February 2017 – Present

**ESiWACE Project**

Euro-Mediterranean Center on Climate Change (CMCC) Foundation  
ASC (Advanced Scientific Computing) Division, Scientific Data Management Research Group

**Coordination and contribution to the CMCC activities related to the WP4-Exploitability in the context of the ESiWACE (Centre of Excellence in Simulation of Weather and Climate in Europe) Project, funded from the European Union's Horizon 2020 research and innovation programme under grant agreement No 675191**

June 2015 – November 2016

**CLIP-C Project**

Euro-Mediterranean Center on Climate Change (CMCC S.C.ar.l.)  
ASC (Advanced Scientific Computing) Division, Scientific Data Management Research Group

**Contribution to the research activities related to WP4: “Visualization and Integration” and WP5: “Climate Data Access” within the “Climate Information Platform for Copernicus (CLIPC)” Project - Project co-funded by the European Commission's Seventh Framework Programme (FP7; 2007-2013) .**

June 2015 – October 2015

**Ofidia Project**

Euro-Mediterranean Center on Climate Change (CMCC S.C.ar.l.)  
 ASC (Advanced Scientific Computing) Division, Scientific Data Management Research Group  
**Contribution to the “Operational Fire Danger prevention pLatform (Ofidia)” Project, European Territorial Cooperation Programme Greece-Italy 2007-2013, within the WP4 “Data Archive & Analytics Platform”.**

April 2013 – May 2015

**TESSA Project**

Euro-Mediterranean Center on Climate Change (CMCC S.C.ar.l.)  
 SCO (Scientific Computing & Operations) Division, Scientific Data Management Research Group  
**Design and implementation of software solutions for the access and management of the TESSA data repository, TESSA Project (TEchnologies for the Situational Sea Awareness - PON01\_02823).**

EDUCATION AND TRAINING

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February 2017

**3rd International Winter School on Big Data - BigDat 2017**

Bari, Università Aldo Moro  
 53 ore

May 2013

**Advanced Training Course - “Image Analysis applied to the Microscopy”**

Department of Innovation Engineering, Department of Biological and Environmental Sciences and Technologies  
 University of Salento - Lecce

October 2007

**Professional qualification as Engineer**

October 2006

**M.Sc. Degree in Computer Engineering from the University of Lecce**

PERSONAL SKILLS

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Mother tongue(s)

Italian

Other language(s)

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

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
 Common European Framework of Reference for Languages

Main Publications  
Research Papers

- A. D'Anca, C. Palazzo, D. Elia, S. Fiore, I. Bistinas, K. Böttcher, V. Bennett, G. Aloisio: On the Use of In-Memory Analytics Workflows to Compute eScience Indicators from Large Climate Datasets, Proceedings of the 17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, CCGRID 2017, Madrid, Spain, May 14-17, 2017
- S. Fiore, C. Palazzo, A. D'Anca, D. Elia, E. Londero, C. Knapic, S. Monna, N. M. Marcucci, F. Aguilar, M. Plóciennik, J. E. M. De Lucas, G. Aloisio: Big Data Analytics on Large-Scale Scientific Datasets in the INDIGO-DataCloud Project, Proceedings of the Computing Frontiers Conference, CF'17, Siena, Italy, May 15-17, 2017, doi: 10.1145/3075564.3078884, 2017
- D'Anca, A. et al.: A multi-service data management platform for scientific oceanographic products, Nat. Hazards Earth Syst. Sci., 17, 171-184, doi:10.5194/nhess-17-171-2017, 2017.
- Coppini, G., Marra, P., Lecci, R., Pinardi, N., Creti, S., Scalas, M., Tedesco, L., D'Anca, A., et al.: SeaConditions: a web and mobile service for safer professional and recreational activities in the Mediterranean Sea, Nat. Hazards Earth Syst. Sci., 17, 533-547, doi:10.5194/nhess-17-533-2017, 2017.
- S. Fiore, M. Plóciennik, C. Doutriaux, C. Palazzo, J. Boutt, T. Žok, D. Elia, M. Owsiak, A. D'Anca et al.: "Distributed and cloud-based multi-model analytics experiments on large volumes of climate change data in the earth system grid federation eco-system," 2016 IEEE International Conference on Big Data (Big Data), Washington, DC, 2016, pp. 2911-2918, doi: 10.1109/BigData.2016.7840941
- Mannarini, G. et al.: VISIR: technological infrastructure of an operational service for safe and efficient navigation in the Mediterranean Sea, Nat. Hazards Earth Syst. Sci., 16, 1791-1806, doi:10.5194/nhess-16-1791-2016, 2016.
- Coppini, G. et al.: A new search-and-rescue service in the Mediterranean Sea: a demonstration of the operational capability and an evaluation of its performance using real case scenarios, Nat. Hazards Earth Syst. Sci., 16, 2713-2727, doi:10.5194/nhess-16-2713-2016, 2016.
- D. Elia, S. Fiore, A. D'Anca, C. Palazzo, I. Foster, D. N. Williams, G. Aloisio, "An in-memory based framework for scientific data analytics". In Proceedings of the ACM International Conference on Computing Frontiers (CF '16), May 16-19, 2016, Como, Italy, 424-429
- S. Fiore, M. Mancini, D. Elia, P. Nassisi, F. V. Brasileiro, I. Blanquer, I. A. A. Rufino, A.C. Seijmonsbergen, C. O. Galvao, V. P. Canhos, A. Mariello, C. Palazzo, A. Nuzzo, A. D'Anca, G. Aloisio, "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
- S. Fiore, A. D'Anca, C. Palazzo, D. Elia, A. Mariello, P. Nassisi, G. Aloisio – "Big data analytics workflow management for eScience" – in Proceedings of European Geosciences Union General Assembly 2015, 12-17 April 2015, Wien, Austria (online).
- S. Fiore, A. D'Anca, D. Elia, M. Mancini, A. Mariello, M. Mirto, C. Palazzo, G. Aloisio – "The Ophidia framework: toward cloud-based data analytics for climate change" – poster shown in European Geosciences Union General Assembly 2015, 12-17 April 2015, Wien, Austria (online).
- S. Fiore, A. D'Anca, D. Elia, C. Palazzo, I. Foster, D. Williams, G. Aloisio, "Ophidia: a full software stack for scientific data analytics", in Proc. of HPCS 2014, 21-25 July 2014, Bologna, Italy
- S. Fiore, Cosimo Palazzo, Alessandro D'Anca, Ian T. Foster, Dean N. Williams, Giovanni Aloisio: A big data analytics framework for scientific data management. IEEE BigData Conference 2013: 1-8
- S. Fiore, A. D'Anca, C. Palazzo, Ian T. Foster, Dean N. Williams, Giovanni Aloisio: Ophidia: Toward Big Data Analytics for eScience. ICCS 2013, June 5-7, 2013 Barcelona, Spain, ICCS, volume 18 of Procedia Computer Science, page 2376-2385. Elsevier, (2013)

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