PERSONAL INFORMATION

Riccardo Cantini

- Via P. Bucci, 41C, 87036 Rende (CS), Italy
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- https://riccardo-cantini.netlify.app/

Gender Male | Nationality Italian

WORK EXPERIENCE

April 2021 – now

Visiting Researcher

Barcelona Super-computing Center - Centro Nacional de Supercomputación (BSC-CNS), Barcelona (Spain)

Research activity: use of machine learning techniques for the optimization of data-intensive scientific workflows. Particular attention is paid to the study and the implementation of hyper-parameter optimization models, aimed at enabling the efficient execution of distributed and scalable algorithms in HPC environments. This activity was carried out within the research project "eFlows4HPC: enabling dynamic and Intelligent workflows in the future EuroHPC ecosystem", funded by the European High-Performance Computing Joint Undertaking.

October 2019 – now

Contract Professor

DIMES Department, University of Calabria, Rende (Italy)

July 2019 – October 2019

Research fellow

DIMES Department, University of Calabria, Rende (Italy)

Research activity: development of in-memory techniques for the efficient execution of data-intensive applications on Exascale architectures. The research is aimed in particular at defining and implementing a scheduling strategy for assigning application tasks to computing nodes, taking into account availability of data and resources. This activity was carried out within the research project "ASPIDE - exAScale ProgramIng models for extreme Data procEssing", funded by the European Union's Horizon 2020 Research and Innovation Programme.

July 2018 – June 2019

Research collaborator

DIMES/DIMEG Department, University of Calabria, Rende (Italy)

Research activity: definition and implementation of data mining techniques aimed at estimating the price of transport services. This activity was carried out within the research project "Smart Macingo", funded under the Calabria Regional Operational Program 2014-2020.

April 2016 – November 2016

Software developer

Valuetech s.r.l., Rende (Italy)

EDUCATION AND TRAINING

November 2019 – now

PhD student in Information and Communication Technologies (ICT) XXXV cycle

DIMES Department, University of Calabria, Rende (Italy)

Research activity: development of innovative algorithms and methodologies for the analysis of Big Data, especially those coming from the main social media platforms, which provide a massive amount of opinion-rich multi-modal data effectively exploitable for extracting valuable information in several application contexts. Particular attention is paid to the following topics: social media and big data analysis, machine and deep learning, natural language processing, sentiment analysis, edge/fog computing, parallel and distributed data analysis.

October 2016 – April 2019	**Master's Degree in Computer Engineering, 110/110 cum laude**
	DIMES Department, University of Calabria, Rende (Italy)
	Thesis title: "Analysis of the political polarization of Twitter users through neural networks"

October 2012 – March 2016	**Bachelor's Degree in Computer Engineering, 102/110**
	DIMES Department, University of Calabria, Rende (Italy)
	Thesis title: "Use of the ELKI framework for the discovery of regions of interest through clustering techniques"

September 2007 – July 2012	**Scientific High School Diploma, 100/100**
	Scientific High School Enrico Fermi, Catanzaro (Italy)

TEACHING

February 2022 – now	**Teaching assistant of Operating systems, Bachelor's Degree in Computer Engineering**
	DIMES Department, University of Calabria, Rende (Italy)
	A.Y. 2021 – 2022

October 2019 – now	**Teaching assistant of Distributed Systems and Cloud/Edge Computing for the Internet of Things, Master's Degree in Computer Engineering for the Internet of Things**
	DIMES Department, University of Calabria, Rende (Italy)
	A.Y. 2019 – 2020, 2020 – 2021, 2021 – 2022

PERSONAL SKILLS

Mother tongue — Italian

Other languages

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

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Spanish
B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

ADDITIONAL INFORMATION

Publications
– The complete list of publications can be found at: `https://scalab.dimes.unical.it/publications/?auth=riccardo_cantini`
– A more detailed version of this list is available at: `https://riccardo-cantini.netlify.app/publication/`

Participation in research projects
– "eFlows4HPC: enabling dynamic and Intelligent workflows in the future EuroHPC ecosystem", funded by the European High-Performance Computing Joint Undertaking
– "ASPIDE - exAScale ProgramIng models for extreme Data procEssing" funded by the European Union's Horizon 2020 Research and Innovation Programme
– "Smart Macingo", funded under the Calabria Regional Operational Program 2014-2020

Thesis supervision

– 13 Bachelor's Degree students in Computer Engineering, DIMES
– 7 Master's Degree students in Computer Engineering, DIMES
Main topics: social media and big data analysis, machine and deep learning, natural language processing, sentiment analysis, edge/fog computing, parallel and distributed data analysis.

Reviewing activity

– Served as reviewer for several international journals, including IEEE Transactions on Cloud Computing (TCC) and IEEE Access.
– Served as reviewer for several conferences, including IEEE BigData and IEEE International Conference on Machine Learning and Applications (ICMLA).

Authorization for the processing of personal data

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Rende, 87036 Italy
February 12, 2022

Riccardo Cantini