PAOLO VIVIANI

PhD - Research Engineer

♀ Torino, ITALY

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% paoloviviani.github.io



<u>m</u> EDUCATION

Master's Degree in Theoretical physics

University of Torino, 104/110

₩ 2015

Collegio Universitario "R. Einaudi", Torino

Scholarship winner: "Piano Lauree Scientifiche 2008", granted by Società Italiana di Fisica.

Ph.D. in Computer Science

University of Torino, Computer Science Dept.

2015 - 2019

♀ Torino, IT

Thesis: Deep Learning at Scale with Nearest Neighbours Communications. Supervisor: Marco Aldinucci. Funded by Noesis Solutions.

• Co-supervisor of one M.Sc. Thesis

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EXPERIENCE

Noesis Solutions

Reasearch Engineer

April 2015 - present

- ♥ Novara, IT
- Development of machine learning modelling methodologies for engineering applications.
- Re-definition of the internal stack (C++, Python) for scientific computing, with focus on performance and maintainability.
- Cloud and container technologies exploitation.
- Supervisor of one internship.
- Re-designed company-wide source code management workflow.
- Technical lead for the following research projects. Non-technical tasks included presentations to European Commission reviewers and reporting activities.

Funded Research Projects

MACH - ITEA2 project

April 2015 - December 2016

% itea3.org/project/mach.html

Fortissimo 2 - H2020-FoF project

February 2016 - October 2018

% www.fortissimo-project.eu

CloudFlow - FP7-I4MS project

March 2016 - May 2017

www.eu-cloudflow.eu

Blockchain for online Service Security - IMEC-ICON Flemish project

VaProFam - FlandersMake-ICON Flemish project

February 2019 - ongoing

DC-CDS - FlandersMake-ICON Flemish project

April 2019 - ongoing

MAIN INTERESTS

High Performance Computing



Machine Learning



Containers and Cloud technologies



SKILLS

Parallel Computing GPU Computing Cloud technologies Machine Learning



Programming

C++ Python CUDA Fortran Git



Soft

Presentations Communication of results Formalization of requirements Factorization of problems



Tools

- Keras
- MxNet
- Pandas
- BLAS/Lapack
- Apache Spark
- Apacile Spark
- Openstack
- PBS/Slurm
- Docker
- Gitlab CI
- Linux
- IP Networking
- Latex
- Mathematica
- CISCO CCNA course completed in 2008.

LANGUAGES

Italian

English



French



Publications

Other

- Four PhD schools attended
- Program Committee member, Euromicro International Conference on Paralle, Distributed, and Network-based Processing (PDP) for 2018 (also session chair), 2019 and 2020.
- Program Committee member, Parallel Numerical Methods and Libraries for Heterogeneous Multi/Manycores (PDP2018 and PDP2019)
- Program Committee member, Artifact Evaluation, Euro-Par 2018
- Program Committee member, 16th IEEE International Conference on Scalable Computing and Communications (ScalCom 2016)

*** FREE TIME**

Avid traveller and photographer. Former track & field athlete, now turned to playground basketball.



paoloph.myportfolio.com

Photographer

OASIS Project



♥ Kharga, Egypt

Archaeological expedition funded by Fondazione Collegio delle Università Milanesi and American University in Cairo.

Photographer

Collegio Universitario "R. Einaudi"

Exchange student

Tauranga Boy's College

2006

Scuba Diver

PADI Advanced Open Water Diver

₩ From 2004

Track and Field athlete

Javelin Throw - Regional and National competitions

1997 - 2012

Volunteer

IAAF Athletics World Championship

2009

♀ Berlin, Germany

English Course

'General English Super Intensive' C1 level course at Alpha College of English

2012

Dublin, Ireland

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