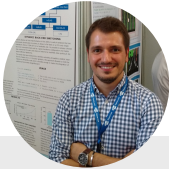


PAOLO VIVIANI

PhD – Research Engineer

Torino, ITALY @ paolo.vivi@gmail.com paoloviviani.github.io



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

EXPERIENCE

Noesis Solutions

Research 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

March 2018 – November 2019

VaProFam – FlandersMake-ICON Flemish project

February 2019 – ongoing

DC-CDS – FlandersMake-ICON Flemish project

April 2019 – ongoing

MAIN INTERESTS

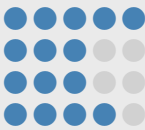
High Performance Computing

Machine Learning

Containers and Cloud technologies

SKILLS

Parallel Computing
GPU Computing
Cloud technologies
Machine Learning



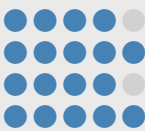
Programming

C++
Python
CUDA
Fortran
Git



Soft

Presentations
Communication of results
Formalization of requirements
Factorization of problems



Tools

- Keras
- MxNet
- Pandas
- BLAS/Lapack
- Apache Spark
- 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 Parallel, 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)*

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

 paoloph.myportfolio.com

Photographer



[OASIS Project](#)

 2013  Kharga, Egypt

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

Photographer

[Collegio Universitario "R. Einaudi"](#)

 2012 – 2014  Torino, Italy


Exchange student

[Tauranga Boy's College](#)

 2006  Tauranga, New Zealand


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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(30/06/2003, n.196/03), and GDPR
(UE 2016/679)