PAOLO VIVIANI

PhD – Research Engineer

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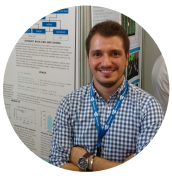

EDUCATION

M.Sc. 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.

Academic activity

- Several publications on peer-reviewed computer science proceedings
- Program committee member in several conferences
- Co-supervisor of one M.Sc. Thesis

EXPERIENCE

Noesis Solutions

Reasearch Engineer

April 2015 – Permanent Novara, IT

- Development of machine learning modelling methodologies for engineering.
- Re-definition of the internal development and deployment stack (C++, Python) for scientific computations, with focus on performance and maintainability.
- Cloud and container technologies exploitation.
- Supervision of one internship.
- Re-designed internal source code management workflow.

Funded research projects

Technical contact for the following research projects. Including presentation to European Commission reviewers.

- MACH – ITEA2 project
- Fortissimo 2 – H2020-FoF project
- CloudFlow – FP7-I4MS project
- Blockchain for online Service Security – IMEC-ICON Flemish project
- VaProFam – FlandersMake-ICON Flemish project
- DC-CDS – FlandersMake-ICON Flemish project

FIELDS OF INTEREST

- High Performance Computing
- Machine Learning

LANGUAGES

Italian	●●●●●
English	●●●●●
French	●●○○○

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.

FREE TIME

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

paoloph.myportfolio.com