

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

LINKS Foundation
Senior Reasearcher
2021 – present Torino, IT

- HPC and big data analytics.
- Quantum computing.
- Funded research projects.

Noesis Solutions
Reasearch Engineer
April 2015 – Permanent Novara, IT

- Machine learning modelling methodologies for engineering.

Funded research projects

- 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

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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