

# PAOLO VIVIANI

PhD – Senior Researcher

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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, Advanced Computing  
2021 – present Torino, IT

- HPC, Machine Learning and Big Data convergence
- Quantum computing
- Funded research projects
- ETP4HPC Working groups member

Noesis Solutions  
Reasearch Engineer  
April 2015 – Permanent Novara, IT

- Machine learning modelling methodologies for engineering

Funded research projects

See [paoloviviani.github.io/projects](https://paoloviviani.github.io/projects) for full list and details.

- B-CRATOS – H2020-FET Open
- ACROSS – H2020-EuroHPC
- 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

HPC and ML/DL

Quantum software and algorithms

## LANGUAGES

Italian ●●●●●●

English ●●●●●●

French ●●●●●●

## SKILLS

Parallel Computing ●●●●●●

Cloud technologies ●●●●●●

Machine Learning ●●●●●●

Research project management ●●●●●●

Quantum Computing ●●●●●●

### Programming

C++ ●●●●●●

Python ●●●●●●

CUDA ●●●●●●

Fortran ●●●●●●

Git ●●●●●●

### Soft

Presentations ●●●●●●

Communication of results ●●●●●●

Formalization of requirements ●●●●●●

Decomposition of problems ●●●●●●

### Tools

- Keras
- MxNet
- Pandas
- BLAS/Lapack
- Openstack
- PBS/Slurm
- Docker
- Gitlab CI
- Linux
- 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

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