

# 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