# PAOLO VIVIANI

#### PhD - Senior Reasearcher

♥ Torino, ITALY

@ paolo.vivi@gmail.com

% paoloviviani.github.io



# **EDUCATION**

## M.Sc. in Theoretical physics

### University of Torino, 104/110

♥ 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 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





**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



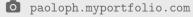
### **Tools**

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

CISCO CCNA course completed in 2008.

## **\*** FREE TIME

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



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