

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
Research 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

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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 ●●●●●●
Git ●●●●●●
Web development ●●●●●●

Soft

Presentations ●●●●●●
Communication of results ●●●●●●
Factorization of problems ●●●●●●
Time management ●●●●●●
Workarounds ●●●●●●

Tools

- Keras
- MxNet
- Pandas
- Apache Spark
- Openstack
- Docker
- Linux OS
- 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