Francesco Ciraolo

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- FrancescoCiraolo
- in FrancescoCiraolo

Languages

🇮🇹 Italian	● ● ● ● ● ●
🇺🇸 English	● ● ● ● ● ○
🇫🇷 French	● ● ○ ○ ○ ○
🇳🇴 Norwegian	● ○ ○ ○ ○ ○

Hard Skills

⌨ C/C++
Java
PHP
Python
JS
C#

⚙ MPI
OpenMP
ROS

🔧 git
LaTeX
ftrace

🐧 Linux Kernel Internals

Education

2020 –	**Computer Science Master**	Università degli Studi di Torino

Expected to finish by July 2022
Grades average 29.25/30 (Top 1%)
Main topics

- Artificial intelligence (Natural language processing, Artificial vision, Neural networks)
    - Personal NLP Project: a Dothraki syntactic and semantic parser, with state-of-art algorithms and tools (CKY, NLTK) along with personal indexing and support data structures.
- Graph theory (Routing, flow, covering...)
- Numerical analysis (approximation, interpolation, ...)

2022	**Erasmus (EU student exchange program) semester**	Universitetet i Oslo

Planned thesis semester under the supervision of Prof Tor Skeie in the field of high performance computing.

2020 – 2021	**Erasmus (EU student exchange program) semester**	University of Luxembourg

Main topics:

- High performance computing (OpenMP, MPI, CUDA)
- Autonomous robots (UAV, ROS)
- Intelligent systems (agents, deontic logic, analysis)

2017 – 2020	**Computer Science Bachelor** **110 cum laude/110**	Università degli Studi di Torino

Program focused on Operative Systems and Networking.

	A tool for testing scheduler domains' flags	Bachelor thesis

Supervisors: Enrico Bini, Dario Faggioli
An analysis of the impact of scheduler's flags in Linux kernel. Collecting traced by ftrace and perf.

2018	**ALFACLASS - Summer School of Mathematics**	UniTo & PoliTo

Excellence summer school for the best 60 (around top 5%) students among the first year students of UniTo and PoliTo

2012 – 2017	**Scientific High School diploma** **100/100**	Liceo Leonardo Agrigento

Publications, Presentations

2021	**Much Ado About... Migrations!**

Francesco Ciraolo, Dario Faggioli, Enrico Bini
Experimental evaluation of migrations and their relation with architecture topology.
Linux Plumbers Conference
`https://youtu.be/xqvlqZQph_0?t=1068`

Awards

2018	**First place CPHACK AXA Health Keeper**	Campus Party - Tree

Hackathon goal: design an healthcare app to improve the AXA's customers lifestyle.

2015	**Italia e Svizzera verso l'EXPO 2015** **Agri-food heritage**	EXPO 2015

Italian winner with an application to support the farming based on geolocation.

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Soft Skills ————

- 👥 Team working
- 👥 Leadership
- 📅 Deadlines managment
- 💡 Problem solving

Licenses ————

- 🚗 Car license
- 🌊 Scuba diving

Software projects

Sched Struct Retriever
`https://github.com/FrancescoCiraolo/sched-structs-retriever`
Simple tool to retrieve the scheduler domains' topology of a running system.

Report reader
`https://github.com/FrancescoCiraolo/report-reader`
A project aiming at simplifying the analysis of ftrace's output.

Working Experience

2021	**Software developer**	Residenza Olimpia
	Developed an internal warehouse support system.	
2021	**Accessible material producer**	Università degli studi di Torino
	Working on teaching material conversion to more accessible formats and standards.	
2019 - 2020	**University freshmen tutor**	Università degli studi di Torino
	Tutoring first year students after their ammission (burocrary, scholarships, studying method).	
2019 - 2020	**Educational workshops' teacher**	Museo dell'automobile di Torino
	Teaching children in several labs dealing with a wide spectrum of car related topics: security, physics, self-driving cars, hydrogen fuel.	

Extra-curricular activities

Blood donor	
Music	I love to listen a lot of genres and I am a clarinet player
Sport	Scuba diver, regular gym frequenter and karate orange belt
Puzzle	Hackathon, riddle and puzzles