

Jacopo Massa

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Experience

10/2023 – 12/2023	Laboratory 1 , Teaching Assistant	B.Sc. Course
10/2022 – 12/2022	Advanced Software Engineering , Teaching Assistant	M.Sc. Course
04/2021 – 06/2021	Cloud & Green Computing , Teaching Assistant	B.Sc. Course

Education

Ph.D. in Computer Science

Pisa, Italy

UNIVERSITY OF PISA / CNR-ISTI

11/2021 – present

- **Thesis:** “Data-aware application Placement And Management in the Cloud-IoT continuum”
- **Advisors:** Antonio Brogi, Stefano Forti, Patrizio Dazzi

Master’s Degree in Computer Science - “ICT Solutions Architect”

Pisa, Italy

UNIVERSITY OF PISA

10/2019 – 10/2021

- **Thesis:** “Data-aware application Placement And Routing in the Cloud-IoT”
- **Advisors:** Antonio Brogi, Stefano Forti
- **Degree Mark:** 110/110 cum laude

Bachelor’s Degree in Computer Science

Pisa, Italy

UNIVERSITY OF PISA

09/2016 – 10/2019

- **Thesis:** “Voice and graphical user interface for a smart building application”
- **Advisors:** Antonio Brogi, Stefano Forti
- **Degree Mark:** 106/110

High School Diploma in Computer Science

San Giovanni Rotondo, Italy

ISTITUTO TECNICO “LUIGI DI MAGGIO”

2011 – 2016

- **Final Mark:** 100/100 cum laude

Publications

2023

J. Massa, S. Forti, F. Paganelli, P. Dazzi, and A. Brogi, “Declarative provisioning of virtual network function chains in intent-based networks”, in *2023 IEEE 9th International Conference on Network Softwarization (NetSoft)*, IEEE, Jul. 2023, pp. 522–527.

J. Massa, S. Forti, P. Dazzi, and B. Antonio, “Data-Aware Declarative Application Management in the Cloud-IoT Continuum”, *ERCIM News*, no. 133, Jun. 2023.

J. Massa, “Data-Aware Application Placement and Management in the Cloud-IoT Continuum”, in *Service-Oriented Computing – ICSOC 2022 Workshops*, Springer Nature Switzerland, Mar. 2023, pp. 301–307.

2022

J. Massa, S. Forti, and A. Brogi, “Data-Aware Service Placement in the Cloud-IoT Continuum”, in *Service-Oriented Computing – SummerSOC 2022 Proceedings*, Springer International Publishing, Jun. 2022, pp. 139–158.

Projects

N.B. The title of each project is a link to its codebase.

EdgeWise

07/2023

A Prolog open-source prototype for comparing and combining a declarative approach and a Mixed Integer Linear Programming approach to determine eligible placements that minimise operational costs and reduce the number of used nodes to contain the amount of data transfers.

Declarative Intent Provisioning System (DIPS)

06/2023

A Prolog tool that exploits a declarative methodology for modelling and processing VNF-based service provisioning intents in a high-level language.

DA-Placer

06/2022

A Prolog tool for designing and proposing an eligible placement and a suitable routing strategy for a given service-oriented application within its data and requirements over a Cloud-IoT infrastructure.

Parallel K-NN

07/2021

Experimental results of comparing C++ Standard Library (STL) and FastFlow C++ programming framework, performing a parallel version of K-NN algorithm.

ViDA Summary

03/2021

A summarised visualisation of a view-based dataset of 3D models using Python frameworks.

ML tools and models comparison

12/2020

A Python framework to compare results of different ML models, such as Neural Networks (NN) and Support Vector Machine (SVM), on different tasks (classification and regression).

TURING: disTribUted collaboRative editiNG

02/2020

A collaborative document editing tool developed in Java offers minimal services (writing new docs, reading, editing sub-sections).

Language Skills

Italian **Mother Tongue**
English **C1** – (*Listening, Reading, Speaking, Writing*)

Digital Skills

VCS **Advanced** – (*Git, Github, GitLab*)
Python **Advanced** – (*scripts, frameworks, libraries*)
Prolog **Advanced**
Java **Advanced**
Latex **Advanced**
C, C++ **Intermediate**

Driving Licence

Driving Licence **B**

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient to use and process my personal details contained in this document.