

Europass Curriculum Vitae



Personal information

Name / Surname

Flavio Giorgi

Education

2025 - 2025

Visiting PhD in Computer Science, *Technische Universität München*
Supervisor: Professor Gjergji Kasneci

2022 - present

PhD in Computer Science, *Sapienza University of Rome*
Advisor: Professor Gabriele Tolomei

2019 - 2022

M.Sc. in Computer Science, *Sapienza University of Rome*
*Date:*21/03/2022.
Final Mark: 110 e lode/110 (magna cum laude)
Thesis: "Semantic driven routing schema for flying mobile autonomous systems".

2014 - 2019

Bachelor's Degree in Computer Science, *Sapienza University of Rome*
*Date:*19/07/2019.
Final Mark: 102/110
Thesis: "Surrogate models through machine learning and optimization techniques".

Experience

Data Analyst (2024)

Data Analyst at ISFORT spa - Conducting floating car data analysis.

Teaching Assistant (2023)

Teaching Assistant at *Università degli studi LUISS Guido Carli* - *Description:* Algorithms - Bachelor Degree in Management and Computer Science.

Graduate Student Researcher
(2022)

Graduate Student Researcher Fellowship at *Sapienza University of Rome* Founded by NATO SeaSec Project.

Description:

– I am working on various aspects of drones networking and deployment.

Skills: Python; Routing protocols for Mobile Ad-hoc Networks; Research methodology and academic writing.

Master Degree Internship
(2021 - 2022)

Internship at *Sapienza University of Rome*.

Description:

– Design and implementation of a framework that manages networks of drones (Flying Ad-hoc Networks).

– Development of a distributed protocol addressing multiple nodes failure in networks of drones.

Skills: Python; Routing protocols for Mobile Ad-hoc Networks; Research methodology and academic writing.

Bachelor's Degree Internship
(2018 - 2019)

Internship at *Università degli studi "La Sapienza"*.

Description:

– Design and development of surrogate models approximating complex physical models through machine learning and optimization techniques.

Skills: MILP modeling; IBM CPLEX; Python; Tensorflow;

Summer Schools

BUCA 2023

I was selected to participate in the summer school 'Challenges in Building Billion Users Cloud Applications,' organized by Google and Sapienza in Lecco, Italy, held at Villa Monastero.

IEEE Ph.D. Summer School on
Complex Networks and
Telecommunications 2023

I have been selected to attend at IEEE RAS Summer School on Complex Networks and Telecommunications 2023 in Como, Italy at *Villa Del Grumello*

IEEE RAS Ph.D. Summer
School on Multi-Robot Systems
2022

I have been selected to attend at IEEE RAS Summer School on Multi-Robot Systems held in Prague, Czech Republic at *Czech Technical University*

Publications

Explainability & LLM

Enhancing XAI Narratives through Multi-Narrative Refinement and Knowledge Distillation

Authors: Flavio Giorgi, Matteo Silvestri, Cesare Campagnano, Fabrizio Silvestri, Gabriele Tolomei

State: Accepted at Workshop on Human Centric AI at CIKM 2025

Graph Explainability & LLM

Natural Language Counterfactual Explanations for Graphs Using Large Language Models

Authors: Flavio Giorgi, Cesare Campagnano, Fabrizio Silvestri, Gabriele Tolomei

State: Accepted at AISTATS 2025

Stop & Offload
2023

A²-UAV: Application-Aware resilient edge-assisted UAV networks

Authors: Andrea Coletta, Flavio Giorgi, Gaia Maselli, Matteo Prata Domenicomichele Silvestri, Jonathan Ashdown, Francesco Restuccia

State: Conference paper extension, Published at Computer Networks Volume 256, January 2025, 110887

Stop & Offload
2023

Stop & Offload: Periodic Data Offloading in UAV Networks

Authors: Novella Bartolini, Andrea Coletta, Flavio Giorgi, Gaia Maselli, Matteo Prata, and Domenicomichele Silvestri

State: Conference paper extension, Published at Computer Communications, Volume 212, Editor Elsevier

A²-UAV
2022

A²-UAV: Application-Aware Content and Network Optimization of Edge-Assisted UAV Systems

Authors: Andrea Coletta, Flavio Giorgi, Gaia Maselli, Matteo Prata Domenicomichele Silvestri, Jonathan Ashdown, Francesco Restuccia

State: Accepted at IEEE International Conference on Computer Communications (INFOCOM 2023)

Stop and Route
2022

Stop and Route: Periodic Data Offloading in UAV Networks

Authors: Novella Bartolini, Andrea Coletta, Flavio Giorgi, Gaia Maselli, Matteo Prata, and Domenicomichele Silvestri

State: Accepted at IEEE International Conference on 18th Wireless On-demand Network Systems and Services Conference (WONS 2023)

Awards and Grants

IEEE INFOCOM TRAVEL
GRANT 2023
Best Paper Award Runner up
WONS 2023
CoNEXT 2022

I have been awarded the IEEE INFOCOM 2023 Travel Grant

"Stop&Route: Periodic Data Offloading in UAV Networks" has been awarded as Best Paper Award, Runner-Up

I won a student grant offered by the GARR consortium covering the expenses of CoNEXT 2022

International Collaborations

Research Collaboration

I collaborated with Professor Francesco Restuccia from Northeastern University, focusing on the subject of "edge-server task offloading in networks of UAVs." This collaboration led to the successful acceptance of our joint research paper at IEEE INFOCOM 2023.

Research Collaboration

I collaborated with Professors Saif Al-Kuwari and Roberto Di Pietro from the Faculty of Science and Engineering at Hamad Bin Khalifa University in Doha, working on underwater communication mechanisms.

Research Collaboration

As part of the SERICS project, I had the opportunity to collaborate with Intesa San Paolo, one of Italy's leading banking institutions, on developing advanced solutions for anomaly detection and explainability in financial transactions.

Community Service

CIKM 2024

I served as reviewer at CIKM 2024 conference

Reviewer at SECON 2022

I served as reviewer at IEEE SECON 2022 conference

Reviewer at
WiMob-SPPDT'2022

I served as reviewer at WiMob-SPPDT'2022 conference

Reviewer at Computer
Communications

I served as reviewer at Elsevier Computer Communications