

Fabrizio Fagiolo

Contact Information

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- **Date of Birth:** 07/02/1999
- **Nationality:** Italian
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- **GitHub:** github.com/F-a-b-r-i-z-i-o

Professional Profile

Graduate in Artificial Intelligence, passionate about Data Science and expert in software development. Focused on innovation in Operations Research and Evolutionary Computation, I combine theory and practice for data-driven solutions. Advocate for open-source software and enthusiastic about advanced computational methods including Quantum Computing.

Objective

I am passionate about the intersection of Data Science, Software Development, and advanced computational fields. I bring experience in Front-End and Full-Stack Development and am a strong advocate for free and open-source software. I have a keen interest in Operations Research, Evolutionary Computing, and Machine Learning, and I am dedicated to exploring how these fields can drive technological innovation and enhance problem-solving capabilities.

Skills

- **Programming Languages:** C++, Python, JavaScript, TypeScript
- **Frameworks & Libraries:** Node.js, Django, PyTorch, React/React Native, Angular, Next.js, Qiskit
- **Web Development:** HTML, CSS, SCSS
- **Tools:** Git, GitHub, Docker, Figma, Qt
- **Algorithms:** Genetic Algorithms, Evolutionary Strategies, Multi-objective Optimization, Machine Learning, Mathematical Modeling
- **Quantum Computing:** Variational Quantum Algorithms
- **Software Engineering:** API Design, Algorithm Implementation, Testing and Maintenance, Software Testing Development

Work and Professional Experience

Research Fellow

Institute of Cognitive Science and Technology (ISTC) – CNR, Rome

May 2024 – May 2025

Development of Variational Quantum Algorithms

Software Developer

UniPG Racing Team, Perugia*

May 2023 – Feb 2024

Development of a graphical user interface using Python and Qt for a car driver with a combustion engine.

Full Stack Developer

Evonove, Perugia*

Jul 2023 – Aug 2023

E-commerce development using Python, Django, Django Oscar API, and FastAPI, integrated with Next.js.

Student Internship

Luna Guber Engineering, Perugia

Feb 2022 – Aug 2023

Development of web and mobile applications to determine the optimal route for waste collection bins.

Solution Developer

Engineering Ingegneria Informatica, Orvieto*

Oct 2021 – Jan 2022

Development of a weather application for both mobile and web platforms using Angular and Ionic.

Education

- **Master's Degree in Computer Science (Artificial Intelligence curriculum)** University of Perugia, Perugia — *Sep 2021 – Feb 2024*
- **Bachelor's Degree in Computer Science** University of Perugia, Perugia — *Sep 2018 – Sep 2021*

Language Skills

- **Italian:** Native
- **English:** Intermediate
- **French:** Beginner

Publications

Published / Accepted

- **A Two-Phase Quantum Algorithm for the Partial Max-CSP** *Authors:* Marco Baioletti, Fabrizio Fagiolo, Angelo Oddi, Riccardo Rasconi *Publication date:* 2024 — **Status:** Published
- **A Variational Quantum Algorithm for the Permutation Flow Shop Scheduling Problem** *Authors:* Marco Baioletti, Fabrizio Fagiolo, Angelo Oddi, Riccardo Rasconi *Submitted to:* GECCO 2025 (QuantOpt Workshop) — **Status:** Accepted

Under Review

- **Applying QAOA to the Oversubscribed Satellite Scheduling Problem** *Authors:* Marco Baioletti, Fabrizio Fagiolo, Angelo Oddi, Riccardo Rasconi *Submitted to:* *Journal of Aerospace Information Systems* — **Status:** Under review
- **Quantum Artificial Intelligence: Some Strategies and Perspectives** *Authors:* Marco Baioletti, Fabrizio Fagiolo, Corrado Loglisci, Vito Nicola Losavio, Angelo Oddi, Riccardo Rasconi, Pier Luigi Gentili *Submitted to:* *AI — Open Access Journal of Artificial Intelligence* — **Status:** Under review
- **Ansatz Optimization using Simulated Annealing in Variational Quantum Algorithms for the TSP** *Authors:* Fabrizio Fagiolo, Nicolò Vescera *Submitted to:* QAI 2025 — **Status:** Under review
- **Divide-et-impera Heuristic-based Randomized Search for the Qubit Routing Problem** *Authors:* Marco Baioletti, Fabrizio Fagiolo, Angelo Oddi, Riccardo Rasconi *Submitted to:* QAI 2025 — **Status:** Under review

Academic Service

- **Program Committee Member**, AIQxQIA Workshop 2024
- **Program Committee Member**, AIQxQIA Workshop 2025

Projects

- [GitHub Portfolio](#)

Statutory Declaration

I, the undersigned, hereby declare — pursuant to Articles 46 and 47 of Italian Presidential Decree (DPR) 445/2000, as subsequently amended — that all information contained in this curriculum vitae is true and correct. I am aware that, under Article 76 of the same Decree, anyone who makes false statements, forges documents, or uses forged documents is liable to the penalties provided by the Italian Criminal Code and relevant special laws.