

ALESSANDRA PARZIALE

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Date of birth: October 21, 2000 ◊ **Place of birth:** Benevento, Italy ◊ **Phone:** (+39) 3459581713

EDUCATION

Master's Degree in Computer Science

July 26, 2024

University of Salerno, Italy

110/110 cum laude

Thesis: "Fairness nel Machine Learning: Sfide e Approcci Pratici per Modelli Inclusivi"

Advisor: Prof. Fabio Palomba

Erasmus+ Traineeship

March 2024 – June 2024

Universidad Rey Juan Carlos, Madrid (Spain)

Activity: Research on fairness in machine learning systems

Bachelor's Degree in Computer Science

July 22, 2022

University of Salerno, Italy

90/110

Thesis: "Equità in Sistemi di Machine Learning: Stato dell'arte, Problemi e Sfide"

Advisor: Prof. Fabio Palomba

ACADEMIC ACTIVITIES

PMI Challenge

2024

Project Management Institute

Naples, Italy

Project: "Esistere"

A project aimed at supporting Alzheimer's patients, their families, and the medical professionals assisting them. My role in this project was as a project manager, leading and supervising a team of seven students.

App Challenge

2022

9th Edition

University of Salerno, Italy

Project: "MindCare"

A project developed in collaboration with IBM to provide support to Alzheimer's patients through the use of games and exercises designed to stimulate and train memory

CERTIFIED LANGUAGES

Spanish

2024

Level C1

English

2023

Level B2

PUBLICATIONS

- **Title:** Cost-Effective Fairness-Aware Practices Recommendation: An Empirical Evaluation
Conference: IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER)
Workshop: First International Workshop on Fairness in Software Systems (Fairness 2025)
Status: In progress

RESEARCH TOPICS

Fairness in Machine Learning: My research activity, conducted during the writing of my Bachelor's and Master's theses, focused on equity in Machine Learning systems, with particular attention to the inequalities and biases that these systems can develop over time. These systems can discriminate against certain groups of people, exacerbating existing social disparities. In my Master's thesis, in addition to an analysis of the state of the art, I experimented with specific approaches, introducing certain practices in particular Machine Learning tasks and in different application contexts. The ultimate goal was to propose methods to follow during the development of Machine Learning models to achieve models that are as inclusive and performant as possible.

EXAM LIST

1 Master's Degree

- | | |
|--|-----------------|
| • Software Project Management | Evaluation: 30L |
| • Databases II | Evaluation: 28 |
| • Geographical Information Systems | Evaluation: 30 |
| • Compilers | Evaluation: 27 |
| • Enterprise Mobile Application Development | Evaluation: 30 |
| • Systems Reliability | Evaluation: 30L |
| • Software Engineering, Management and Evolution | Evaluation: 28 |
| • Software Engineering for Artificial Intelligence | Evaluation: 30 |
| • Internet of Things | Evaluation: 29 |
| • Software Metrics and Quality | Evaluation: 28 |
| • Statistics and Data Analysis | Evaluation: 30 |
| • English Language | |

2 Bachelor's Degree

- | | |
|-----------------------------------|----------------|
| • Programming and Data Structures | Evaluation: 29 |
| • Mathematical Analysis | Evaluation: 22 |
| • Programming I | Evaluation: 27 |
| • Databases | Evaluation: 24 |
| • Computer Architecture | Evaluation: 19 |
| • Discrete Mathematics | Evaluation: 18 |

• Mathematical Methods For Computer Science	Evaluation: 19
• Probability Calculus and Mathematical Statistics	Evaluation: 22
• Algorithm Design	Evaluation: 18
• Object-Oriented Programming	Evaluation: 23
• Computer Networks	Evaluation: 27
• Operating Systems	Evaluation: 20
• Web Software Technologies	Evaluation: 22
• Elements of Computation Theory	Evaluation: 20
• Fundamentals of Artificial Intelligence	Evaluation: 27
• Software Engineering	Evaluation: 24
• Mobile Programming	Evaluation: 25
• Distributed Programming	Evaluation: 24
• Operations Research	Evaluation: 24
• Simulation	Evaluation: 25
• English Language	