

CARLO ROMEO

Ph.D. Student

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EDUCATION

05/2025 - 11/2025

PhD Visiting, Universitat Autònoma de Barcelona (UAB), Barcelona, Spain
Computer Vision Center (CVC)
Topics of research: Reinforcement Learning, Token Pruning, Transformer
Advisors: Dimosthenis Karatzas, Andrew D. Bagdanov

2022 - ongoing

PhD in Artificial Intelligence, University of Pisa / University of Florence
Media Integration and Communication Center (MICC), Pisa/Florence, Italy
Topics of research: Reinforcement Learning, Offline Reinforcement Learning, Computational Efficiency
Advisors: Andrew D. Bagdanov

2018 - 2020

M.Sc in ICT Engineering, Mediterranean University, Reggio Calabria,
Grade: 110/110 cum laude
Thesis: Evaluation of Natural Language Processing basic techniques from a computational requirements point of view, and development of a conversational chatbot for resource-constrained systems.

2014 - 2018

B.Sc in ICT Engineering, Mediterranean University, Reggio Calabria
Grade: 88/110
Thesis: Created a mini First-Person-Shooter videogame in Unreal Engine 4, focusing on the development of NPC behavior using state machines.

WORK EXPERIENCE

2022 - 2023

Adjunct Professor, Mediterranean University, Reggio Calabria
Job Duties: teaching Machine Learning and Deep Learning techniques using TensorFlow and evaluating students' group projects.

04/2021 - 10/2022	Junior Machine Learning Engineer , Relatech Ithea, Cosenza Job Duties: Design and deploy AI techniques to meet customers' needs as part of an R&D team. Topics: Anomaly Detection and Recommendation Systems.
10/2020 - 02/2021	Machine Learning Engineer Intern , Accenture, Milan Job Duties: Develop AI solutions to meet customers' needs within the Salesforce environment.

SELECTED PUBLICATIONS

2025	C. Romeo*, G. Macaluso*, A. Sestini, A. Bagdanov. SPEQ: Offline Stabilization Phases for Efficient Q-Learning in High Update-To-Data Ratio Reinforcement Learning. Reinforcement Learning Conference (RLC)
2025	C. Romeo, A. Bagdanov. NTRL: Encounter Generation via Reinforcement Learning for Dynamic Difficulty Adjustment in Dungeons and Dragons. Conference of Games (CoG)
2024	C. Romeo, A. Bagdanov. Offline Reinforcement Learning with Imputed Rewards. Reinforcement Learning Conference @ RLBrew Workshop (RLC)

TECHNICAL SKILLS

Frameworks and Tools	OpenAI Gymnasium, PyTorch, NumPy, Scikit-learn, Pandas, Matplotlib
Programming Languages	Python
Miscellaneous	Unity, Unreal Engine, Git, Bash

LANGUAGES

Italian	Native
English	Full professional proficiency

(Last update: July 2025)