

# 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.

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## 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.

<b>04/2021 - 10/2022</b>	<b>Junior Machine Learning Engineer</b> , 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.
<b>10/2020 - 02/2021</b>	<b>Machine Learning Engineer Intern</b> , Accenture, Milan Job Duties: Develop AI solutions to meet customers' needs within the Salesforce environment.

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## SELECTED PUBLICATIONS

<b>2025</b>	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 <b>(RLC)</b>
<b>2025</b>	C. Romeo, A. Bagdanov. NTRL: Encounter Generation via Reinforcement Learning for Dynamic Difficulty Adjustment in Dungeons and Dragons. Conference of Games <b>(CoG)</b>
<b>2024</b>	C. Romeo, A. Bagdanov. Offline Reinforcement Learning with Imputed Rewards. Reinforcement Learning Conference @ RLBrew Workshop <b>(RLC)</b>

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## TECHNICAL SKILLS

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

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## LANGUAGES

<b>Italian</b>	Native
<b>English</b>	Full professional proficiency

*(Last update: July 2025)*