paglieridavide@gmail.com

DAVIDE PAGLIERI

LINKEDIN.COM/IN/DAVIDEPAGLIERI
davidepaglieri.github.io

WORK EXPERIENCE

AI Research Engineer **Bending Spoons, Italy** **Oct 2021 – Jan 2023**

- AI lead and creator of Dawn AI, a mobile app using generative models to create AI avatars. During its peak the app ranked first in order of downloads in the US app store for 3 consecutive days; later merged into Remini AI.
- Researched, prototyped and deployed deep learning models on several company's apps: Remini, Splice, Dawn AI; focusing on diffusion generative models, image enhancement and artificial slow motion.

EDUCATION

PhD Candidate **University College London, UK** **Jan 2023 – present**

- PhD candidate funded by the Computer Science department
- Advised by Tim Rocktäschel and Jack Parker-Holder
- Researching LLM/VLM agents, Reinforcement Learning, efficient inference of foundation models and Open-Ended Learning

MSc Computing AI & ML **Imperial College London, UK** **Oct 2020 – Oct 2021**

- Graduated with Distinction
- Relevant modules include Mathematics for Machine Learning, Introduction to ML, Reinforcement Learning, Deep Learning, Computer Vision, ML for Imaging, NLP, Robotics
- Research thesis on Open-Ended RL for Dynamic Robot Locomotion (GitHub), advised by Antoine Cully

BSc Computer Engineering **Politecnico di Torino, Italy** **Sep 2017 – July 2020**

- Graduated with 110/110 cum laude
- Relevant modules include Computer Science, Advanced Algorithms and Programming, OOP, Databases, Operating Systems, Calculus 1-2, Linear Algebra and Geometry, Mathematical Methods for Engineers

TECHNICAL EXPERIENCE

Papers

- BALROG: Benchmarking Agentic LLM and VLM Reasoning on Games (2024) (balrogai.com)
- Outliers' effects on quantization of modern LLMs (2024) (preprint): https://arxiv.org/abs/2405.20835
- Adversarial examples to Multi-Agent RL (2024) (Oral AAMAS): https://arxiv.org/abs/2401.13460

LANGUAGES AND TECHNOLOGIES

- Python (4 years), PyTorch (4 years), JAX, C/C++ (1.5 years), Java, Swift, Lua, SQL, ARM Assembly, Bash, Git

AWARDS

- **Young Talent Project (2018 – 2020):** Scholarship awarded to the 200 best students of the academic year.