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DAVIDE PAGLIERI

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WORK EXPERIENCE

AI Research Engineer	Bending Spoons, Italy	Oct 2021 – Jan 2023
<ul style="list-style-type: none">• AI lead and creator of Dawn AI, a mobile app using generative models to create AI avatars. During its peak the app <u>ranked first</u> 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
<ul style="list-style-type: none">• PhD candidate funded by the Computer Science department• Supervised by Tim Rocktäschel and Jack Parker-Holder• Researching LLM agents, efficient inference of foundational models and Open-Ended Learning		
MSc Computing AI & ML	Imperial College London, UK	Oct 2020 – Oct 2021
<ul style="list-style-type: none">• 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 Reinforcement Learning for Dynamic Robot Locomotion (GitHub), supervised by Antoine Cully		
BSc Computer Engineering	Politecnico di Torino, Italy	Sep 2017 – July 2020
<ul style="list-style-type: none">• 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

- Benchmarking LLM and VLM agents on long-horizon interactive tasks (2024) ([preprint](#))
- 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.