

Pedro M. P. Curvo

Master Student in Artificial Intelligence
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EDUCATION

Universiteit Van Amsterdam <i>Master of Science in Artificial Intelligence</i>	Amsterdam, Netherlands 2024 - Expected 2026
Instituto Superior Técnico <i>Bachelor of Science in Engineering Physics</i> Thesis: Applied Deep Learning for High-Aspect Ratio Stellarator Design (Collaboration with UW Madison, WI, USA)	Lisbon, Portugal 2021 - 2024
Instituto Superior Técnico <i>Bachelor of Science in Computer Science and Engineering</i>	Lisbon, Portugal 2023 - 2024

EXPERIENCE

Junior Software Engineer <i>Copernica</i>	Nov. 2024 – Present Amsterdam, Netherlands
Research Assistant <i>University of Wisconsin-Madison</i>	Jan. 2024 – Jul. 2024 Madison, WI, USA
Teaching Assistant <i>Instituto Superior Técnico</i>	Sep. 2023 – Nov. 2023 Lisbon, Portugal
Machine Learning Summer Intern <i>LIP - Laboratory for Instrumentation and Experimental Particle Physics</i> Developed an ML model to replace a time consuming Monte-Carlo simulation of particles	Jul 2022 - Oct 2022 Lisbon, Portugal

PUBLICATIONS

Using Deep Learning to Design High Aspect Ratio Fusion Devices <i>Curvo, P., Ferreira, D.R., & Jorge, R.</i>	2024 <i>Journal of Plasma Physics, Cambridge Press</i>
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SKILLS

Machine Learning: PyTorch, TensorFlow, JAX, Scikit-Learn, Keras
Programming: Python, C++, C, Java, JavaScript, TypeScript, R
Backend & Databases: Django, FastAPI, PostgreSQL
Developer Tools: Git, Docker, Kubernetes
Data Processing & Visualization: NumPy, Pandas, Polars, Matplotlib
Soft Skills: Critical Thinking, Problem-Solving, Teamwork
Languages: Portuguese (Native), English (Advanced), Spanish (Intermediate)

PROJECTS

MLStellaratorDesign <i>Python, PyTorch</i> Implemented an Inverse Quasisymmetric Stellarator Near-Axis Method with Mixture Density Networks	Jan 2024 – Jul 2024
HumanaEthica <i>Groovy, Java, Vue, TypeScript, JavaScript, Postgresql, Docker</i> Open-source broker that aims to connect charities and non-profit organizations with volunteers.	Mar 2023 – Jul 2024
NFIST Website <i>Gatsby, CSS, HTML, TypeScript</i> Developed a website for the physics student club at IST, Lisbon, Portugal	Jul 2024
BimaruSolver <i>Python, Numpy</i> Developed an AI model to solve the Bimaru War-Ship Game	Jul 2023
Predicting COMPASS/AMBER Acceptance using NNs <i>Python, PyTorch</i> Implemented a Classification Model to predict the acceptance of particles at COMPASS/AMBER apparatus at CERN	Jul. 2023 – Oct. 2023

HONORS AND AWARDS

Fellowship: Self-Learning Tools for Experimental Physics

Instituto Superior Técnico

Jul 2023 - Oct 2023

Lisbon, Portugal

Merit Award: Caixa Mais Mundo

Caixa Geral de Depósitos

2023/2024 Edition

Lisbon, Portugal