Pedro M. P. Curvo

PhD Student in Artificial Intelligence, University of Amsterdam
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Education

PhD in Artificial Intelligence — Aug 2026 – Present
University of Amsterdam — *Amsterdam, Netherlands*
- Research focus: Generative Models, World Models

MSc Artificial Intelligence (*cum laude*) — 2024 - 2026
University of Amsterdam — *Amsterdam, Netherlands*
- GPA: 8.75/10 (**Excellent**, A+ in US/UK scale)
- Thesis Title: "Follow the Mean: Reference-Guided Flow Matching"

BSc Physics Engineering — 2021 - 2024
Instituto Superior Técnico — *Lisbon, Portugal*
- Thesis Title: "Using Deep Learning to Design High Aspect Ratio Fusion Devices" (20/20)

Publications

LiFT: Loop Flow Transformers — 2026
Derakhshani, M.M.*, ***Curvo, P.M.P.****, Burghouts, G.J., Van De Meent, J.-W., & Snoek, C.G.M.
ArXiv, abs/2610.05538. (Equal contribution.)*

Follow the Mean: Reference-Guided Flow Matching — 2026
Curvo, P.M.P., Zhdanov, M., Eijkelboom, F., & Van De Meent, J.-W.
ArXiv, abs/2605.10302.

MSPT: Efficient Large-Scale Physical Modeling via Parallelized Multi-Scale Attention — 2025
Curvo, P.M.P., Van De Meent, J.-W. & Zhdanov, M.
*CVPR 2026 **(Highlight)**.*

The Traitors: Deception and Trust in Multi-Agent Language Model Simulations — 2025
Curvo, P.M.P.
NeurIPS 2025 Workshop on Multi-Turn Interactions in Large Language Models.

Reproducibility Study of "Cooperate or Collapse: Emergence of Sustainable Cooperation in a Society of LLM Agents" — 2025
Curvo, P.M.P., Dragomir, M., Torpes, S., & Rahimi, M.
ArXiv, abs/2505.09289.

Using deep learning to design high aspect ratio fusion devices — 2024
Curvo, P., Ferreira, D.R., & Jorge, R.
Journal of Plasma Physics, 91.

Work Experience

Feedzai — Jul. 2025 – Oct. 2025
Software Engineer Intern, AI & Financial Crime — *Lisbon, Portugal*
- Implemented an agentic framework to automatically draft SAR narratives, reducing analyst drafting time by 70%.

Copernica — Nov. 2024 – May 2025
Junior Software Engineer — *Amsterdam, Netherlands*
- Built backend features for an email marketing platform using TypeScript and PostgreSQL.

Teaching Experience

Teaching Assistant — Sep. 2025 – Present
Department of Computer Science, University of Amsterdam — *Amsterdam, Netherlands*
- Deep Learning I, Information Retrieval I, Machine Learning I, Interpretability and Explainability in AI.

Skills

ML Research: PyTorch, JAX, Diffusers, Transformers, Scikit-Learn
Programming: Python, TypeScript, C++, C
Systems & Tools: Git, Docker, Kubernetes, FastAPI, PostgreSQL, GitHub Actions
Languages: Portuguese (Native), English (Full Professional Proficiency), Spanish (Intermediate)