

JEREMY MOEBEL

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Engineering student at **École des Ponts** and in the **M2 Data Science at École Polytechnique**. Research in LLM post-training at the Harvard AI and Robotics Lab, and LLM document automation shipped to production as a freelancer. **Available from April 2027 for a 6-month internship.**

Experience

Freelance AI Engineer

Jul 2026 – Present

Contract engineer

Paris, France

- Freight forwarder, with one other developer: staff drop a bill of lading or air waybill, a vision model fills the fields, a person checks them and the file goes straight into the forwarding system. In use across its offices since Sept. 2026; **FastAPI, Next.js, Supabase, 2,300+** tests, CI/CD.
- Luxury furniture manufacturer: intercompany orders and invoicing across Outlook, QuickBooks, Business Central and SharePoint; an LLM reads quotes, every value is verified against both systems, humans approve. Live since Sept. 2026 (n8n, 157 tests).

Harvard AI and Robotics Lab

Mar 2026 – Aug 2026

Machine Learning Research Intern, Harvard Medical School / Mass General Hospital

Boston, MA, USA

- Maintained the lab's **LLM post-training** benchmark: Llama-3.1-8B with SFT, DPO, GRPO, PPO and REINFORCE++ (**TRL, DeepSpeed ZeRO-3, A6000/H100**), 3 seeds on 7 benchmarks; onboarded 3+ collaborators.
- Evaluated **multi-agent RL** variants: a learned orchestrator matched frozen-team accuracy with **55% fewer tokens** (532 vs. 1,185 per item) across three seeds.
- Co-authored three preprints on multi-agent reasoning and diffusion-based image editing (see Publications).

Auditoo – Station F

Jul 2025 – Dec 2025

AI Engineer Intern

Paris, France

- Designed a speech-to-text evaluation pipeline measuring WER, latency and cost on **8,000** customer clips over **50** days; presented the analysis and recommended the model the team adopted.
- Scoped an OCR agent with field technicians, then built and **shipped it to production**: it reads equipment labels and pre-fills their diagnostic workflow.

Publications

- Luo*, Lali*, **Moebel***, Khoutaibi, Aidara, Wang. *Revision-Aware Independent Agent Graphs for Dynamic Reasoning*. Under review at ICLR 2027, arXiv:2610.01249. (* equal contribution)
- Luo, Aidara, Lu, **Moebel**, Han, Wang. *VAGS: Velocity Adaptive Guidance Scale for Image Editing and Generation*. Under review at ICLR 2027, arXiv:2605.15661.
- Li, **Moebel**, Wang. *Rethinking One-Step Image Editing through ChordEdit: Reproduction, Simplification, and New Insights*. Preprint, arXiv:2606.14042, 2026.

Projects

- **Cinemantle** (cinemantle.com, co-built, live since April 2026): a daily movie-guessing game; sentence-transformer embeddings score each guess. Next.js and FastAPI on Google Cloud Run.
- **Zumy** (tryzumy.com): an iOS app for rating music, built solo in SwiftUI and Firebase; public TestFlight beta.
- **Answers with sources** (GitHub): question answering that only answers from numbered sources and cites them inline; crawl4ai, GroundX, tests and CI.

Education

École Polytechnique, Institut Polytechnique de Paris

2026 – 2027

M2 Data Science: computer vision, generative models, reinforcement learning, optimal transport

Palaiseau, France

École des Ponts, Institut Polytechnique de Paris

2023 – 2027

MEngSc, Mathematical and Computer Engineering

Paris, France

- Deep Learning (A+), Machine Learning (A+), Convex Optimization (A+), High-Dimensional Statistics (A).

Lycée Louis Pasteur

2020 – 2023

Classes préparatoires MPSI/MP

Neuilly-sur-Seine, France

- Ranked **1st/45** in mathematics in the final year; top **5%** in the Concours Commun Mines–Ponts.

Skills

Programming: Python, TypeScript, SQL, Swift/SwiftUI, C++

ML: PyTorch, Hugging Face Transformers, TRL, PEFT, DeepSpeed, scikit-learn

Engineering: FastAPI, Next.js, PostgreSQL (Supabase), Docker, GitHub Actions, Vercel, Google Cloud Run, n8n

Languages: French & English (bilingual; TOEIC 990/990), German (B2)

Interests: classical piano (Conservatoire Claude Debussy, *troisième cycle*), arranging sheet music, speedcubing