Jan Malte Lichtenberg, PhD

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I develop end-to-end machine-learning workflows and implement them into real-world products. I think machine-learning algorithms are best understood if they can be interacted with. I have a theoretical background in computer science and statistics, but "building things" is closer to my heart.

WORK EXPERIENCE & PROJECTS

JAN 2022 – PRESENT	**Applied Scientist** at AMAZON MUSIC, Berlin Improving personalized recommender systems. Research on LLMs for personalization, fair learning-to-rank, and offline-policy evaluation.
MAR 2021 – AUG 2021	**Applied Scientist** (PhD internship) at AMAZON MUSIC, Berlin Implemented and analyzed a new learning-to-rank algorithm. Halved the prediction latency of a production algorithm.
2020 – 2021	**Machine Learning Specialist** (Freelance) at OPTIMETRIKS, Paris End-to-end customer-facing object detection project for a Fortune Global 500 client: Implemented, trained, and deployed (on mobile app and on GCP) a custom object-detection model using `TensorFlow`. Managed the data-labelling process.
MAY 2019	*This machine is learning*, installation in cooperation with MASINO BAY, London Combined reinforcement learning, generative coding, and computer vision to create an interactive installation. Presented at D&AD Festival 2019 in London.
JAN 2016 – APRIL 2017	**Scientific Programmer** at MAX PLANCK INSTITUTE, Berlin Implemented research experiments in `Python` and `R`. Conducted research on decision making under uncertainty.
JAN 2015 – APRIL 2015	**Data Analyst** (Freelance) at ALTAI CONSULTING, Paris Cleaned and analyzed sociological and political survey data. Detected fraudulent behavior in the data collection process that led to improvements in subsequent projects.

EDUCATION

2022	**Computer Science, AI** (PhD), UNIVERSITY OF BATH, UK.
2016	**Statistics** (MSc), HUMBOLDT UNIVERSITY OF BERLIN, DE
2014	**Statistics** (Diplôme de statisticien économiste), ENSAE PARIS, FR
2012	**Economics** (BSc), HUMBOLDT UNIVERSITY OF BERLIN, DE

INTERESTS & SKILLS

My current research interests revolve around fair and personalized LLM-based recommenders as well as offline policy evaluation. In my previous research, I was interested in the unreasonable effectiveness of human decision making, and how we can use it to inform machine learning algorithms.

I mostly program in `Python` but I am also proficient in `JavaScript` and have worked with `C++` and `Java` code. I've worked in cloud-computing stacks (`AWS`, `GCP`) and Unix environments. I loved teaching AI and RL courses during my PhD. My native language is German but I am fluent in English and French.