Jonas Weinert

Applied AI Engineer & Data Scientist

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Applied AI engineer and data scientist. At the World Bank I build generative-AI tools and workflows used weekly by research and operations teams, and have trained 100+ staff to use AI in their work. I evaluate LLM output against human judgement, drawing on a background in econometrics and impact evaluation across Africa and Afghanistan. PhD candidate at LSE, where I teach machine learning and am designing an executive education course on agentic AI.

EXPERIENCE

Consultant, Impact Analytics (Generative AI) June 2026 – Present

World Bank Group | Washington, DC (hybrid, part-time)

- Built 5 generative-AI (LLM) tools and workflows for research, operations and monitoring teams, now used weekly. One drafting workflow lets teams produce a first draft of a policy brief or research paper in hours instead of weeks.
- Trained 100+ staff across 12 units on using AI in research and operations work.
- Write an internal newsletter and upskilling guide on AI literacy, read by hundreds of World Bank staff.
- Work with individuals and teams to rework their workflows so AI is built in from the start.

Course Content Designer & Head Tutor, The Agentic AI-Powered Professional: Reimagining Your Work 2026 – Present

LSE online executive education, convened by Jon Cardoso-Silva and Youngjin Yoo | London, UK

- Designing 6 modules and 22 hands-on activities and assessments that teach working professionals to use Claude Code and customise agent harnesses in their own work.
- Write the learner-facing materials and advise on scripts for 20+ course videos.
- Head tutor from launch in Q1 2027, with 65+ learners per cohort; coordinate 4+ tutors across 20+ live sessions.

Research Consultant & Co-PI September 2024 – Present

World Bank Group, Development Economics Research Group (DECRG) | Remote (part-time)

- Co-designed, built and evaluated MetaScreener, an open-source LLM tool that screens papers and extracts data for systematic reviews. It reached 94% recall against human reviewers on 700 abstracts and cut screening from months and tens of thousands of dollars in research-assistant costs to two weeks with at most one assistant.
- Co-PI on a retrospective impact evaluation of pay-for-performance health financing in Afghanistan, 2001–2025, using quasi-experimental econometrics and data envelopment analysis across 34 provinces and 4 financing modalities.
- Co-authored a review of AI interventions supporting frontline health workers in low-resource settings, published as a background paper for Chapter 5 of the World Development Report 2026. Co-authoring a second review on quality of care in global health interventions.

Teaching Assistant, Machine Learning & Data Science September 2025 – Present

LSE Department of Methodology & Data Science Institute | London, UK

- Teach 10 seminar groups (90+ students) a year on machine learning, data science and data engineering, in Python and R.
- Outstanding Class Teacher Award (2025), based on student feedback.

Independent Data Science & AI Consultant 2017 – Present

Freelance | London, UK / remote

- Designing an automated monitoring pipeline for data-centre equipment (cooling and other systems) that uses NLP and XGBoost on unstructured, heterogeneous monitoring data.
- Data science, ML and software projects for NGOs and small businesses, including donor-propensity modelling for International Justice Mission and an impact-evaluation results dashboard for an international development evaluation.

Research Consultant September 2023 – September 2024

World Bank Group, Development Impact Evaluation (DIME) | Washington, DC

- Ran machine-learning heterogeneity analysis (GenericML, Chernozhukov et al.) across randomised and quasi-experimental evaluations of adaptive social protection in Senegal, Burkina Faso, Mauritania and Niger, covering 500+ households.
- Built R and Python pipelines, dashboards and reproducibility packages used by research and policy teams.

MEL Data Analyst Consultant September 2022 – January 2024

Itad | London, UK

- Main point of contact between the Global Fund, WHO, Jhpiego, KIT and partners in five countries (Chad, DRC, Mali, Niger, Nigeria) for the evaluation of the Global Fund's Human Resources for Health and Quality Improvement initiative.
- Designed survey tools in ODK and ran data collection with 50+ enumerators in four countries, covering 77 health facilities and hundreds of patients.
- Analysed survey and health-register data with quasi-experimental methods and reported to policymakers, donors and research partners. Findings fed into the Global Fund's strategic initiative on human resources for health.

Contractor, Gender and Human Rights Branch March 2022 – September 2022
United Nations Population Fund (UNFPA) | New York, USA (remote)

- Produced a 9-unit online course on gender-biased sex selection data and programme evaluation for UNFPA staff and government officials, and co-organised a research colloquium with leading academics.

Co-Founder and Chair November 2017 – June 2020
NGO: Human Rights Week (Menschenrechtswoche Tübingen e.V.) | Tübingen, Germany

- Led 30 volunteers across 6 teams to run a week-long festival for 27 NGOs that drew more than 8,000 visitors.

Paramedic October 2015 – September 2021
German Red Cross | Künzelsau, Germany

- Full-time 2015–2017 and 2021, including COVID-19 response.

SELECTED AI & SOFTWARE PROJECTS

EconAgentSkills 2026
Agent skills for modern econometrics research
https://github.com/JonasWeinert/EconAgentSkills

- 10 open-source agent skills (SKILL.md) that make Claude Code, Codex, Cursor and Gemini CLI follow DIME conventions and modern DiD/IV/RDD methods (fixest, Callaway–Sant'Anna, rdrobust). 30 GitHub stars, 4 forks and 200+ clones.

ClassifAI Studio 2026
Text classification with decision models and LLMs, evaluated on your own labels
https://github.com/JonasWeinert/classifai-studio

- macOS app (Tauri, Rust, Python) that runs the same questions through local decision models and LLMs (Claude, GPT, Gemini, Llama) via structured output, scores them against ground truth (F1, Cohen's κ, calibration error, latency) and fine-tunes models on-device with Unsloth/MLX. Used by other PhD researchers.

TeXeditor 2026
AI LaTeX editor where coding agents edit as reviewable diffs
https://github.com/JonasWeinert/texeditor

- macOS editor (Electron) with live PDF preview and SyncTeX that runs the user's own Codex or Claude Code CLI; every agent edit appears inline to accept, reject or refine. Used by other PhD researchers.

Key 2026
A research workspace for macOS: read, annotate, search and connect the literature you work with
https://github.com/JonasWeinert/Key-KMP

- Electron app with a Rust backend for the ML and AI features, including vector search. PDFs, web pages, books, audio, video, notes and canvases live in one library, searchable by words and by meaning, with the people, journals, topics and citations around every paper.

SKILLS

AI & LLMs: LLM application design, agent harnesses and skills (Claude Code, Codex), structured output, evaluation against human labels, vector search, fine-tuning (Unsloth/MLX, Whisper), OpenAI/Anthropic/Gemini APIs, LangChain, Hugging Face, PyTorch
Software: Python, TypeScript, React, Next.js, Rust, Electron, Tauri, R, Stata, SQL, Git, GitHub Actions, Bash
Data & methods: Causal inference, econometrics, machine learning, survey design (ODK), data visualisation
Consulting: Working with clients and partners, coordinating projects across countries, training and workshops, writing for non-technical readers
Languages: German (native), English (C2), French (conversational)

EDUCATION

The London School of Economics and Political Science 2024 – 2028 | UK
PhD Health Policy / Health Economics

- Research on how ML and AI change social-science methodology, and on behavioural dynamics in global health economics.
- Health-seeking and service uptake in LMICs during conflicts and crises; structural models of pandemic behaviour.

The London School of Economics and Political Science 2021 – 2022 | UK
MSc Global Health Policy (Health Economics) | Distinction

- Applied health econometrics, randomised evaluations, economic evaluation.
- Heinrich Böll Foundation scholarship.

University of Tübingen 2017 – 2020 | Germany
B.A. Political Science and Cultural Anthropology | GPA 4.0

- Thesis: 10,000-word analysis of divergence in Schengen visa issuance quotas using multivariate regression.
- Heinrich Böll Foundation scholarship.