

Jonas Weinert

DATA SCIENTIST & GLOBAL HEALTH ECONOMIST

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I am an economics & econometrics enthusiast with a passion for experimental and quasi-experimental causal inference and data science.

Education

PHD Health Policy / Health Economics

THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

UK

2024 - 2028

- Analysis of health seeking & service uptake in LMICs during conflicts and crises.

MSc. Global Health Policy with focus on health economics | Distinction

THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

UK

2021 - 2022

- Analysis of Global Health issues through economics, demographics, and public policy. Focus on health economics and policy evaluation through applied econometrics.
- Heinrich Böll Scholar.

B.A. Political Science and Cultural Anthropology | GPA 4.0

UNIVERSITY OF TÜBINGEN

Germany

2017 - 2020

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

Professional experience

Research Consultant: Development Impact Evaluations (DIME)

WORLD BANK GROUP

Washington (DC), USA

September 2023 - Present

- Randomized Control Trials & Quasi Experimental Econometric Impact Studies
- Using machine learning for cross country heterogeneity testing
- Analysing, Visualising, and Presenting household and individual data from thousands of households
- Work in different Western African countries, mostly Senegal, Burkina-Faso, Mauritania, and Niger
- Skills and technology: Econometrics, machine learning, development economics, R, Python, Stata

Data Scientist

FREELANCE

London (UK)

June 2020 - Present

- Realising data science projects for businesses and NGOs
- Leveraging machine learning, causal inference, and other tools to generate insights from organizational data and optimize business processes
- Recent projects include:
- Working with International Justice Mission to identify effective donation generation strategies by developing a donation propensity prediction ML pipeline based on historic donor data.
- Creating an impact evaluation result dashboard that gathers and visualises metrics from several research units of an international development umbrella evaluation.

Consultant: Monitoring & Evaluation

ITAD LTD

London, UK

September 2022 - December 2023

- Evaluation of the Global Fund Service Delivery Innovations Strategic Initiative: Human Resources for Health and Quality Improvement
- Liaised between and communicated results to international and local stakeholders from the Global Fund to fight Aids Malaria and TB, 3 implementing partners of the initiative (World Health Organisation, Jhpiego, and the KIT Royal Tropical Institute), data collection partners in the five countries, and the principal investigators
- Organised, coordinated, and oversaw data collection with more than 50 enumerators in 4 countries
- Planned, carried out, and reported statistical analysis using various quasi experimental regression based techniques
- Skills and technology: Econometrics, impact evaluations, Global Health, communication, ODK for survey design, Stata, Python

Contractor

UNITED NATIONS POPULATION FUND (UNFPA)

New York, USA

March 2022 - September 2022

- Gender and Human Rights Branch, Technical Division
- Produced a 9-unit self-paced online course on Gender Biased Sex Selection data and program evaluation for UNFPA employees and government officials
- Co-organised a research colloquium between UNFPA technical staff and leading academics
- Skills and technology: E-Learning, capacity transfer, knowledge management, Moodle, Adobe Photoshop

Co-Founder and Chair

NGO: HUMAN RIGHTS WEEK (MENSCHENRECHTSWOCHE TÜBINGEN E.V.)

Tübingen, Germany

November 2017 - June 2020

- NGO that connects local initiatives that work around human rights and sustainability with each other and the local population and facilitates a week-long human rights festival
- Managed 30 volunteers across 6 teams
- Supervised the organisation of a week-long networking and outreach festival for 27 NGOs that attracted more than 8,000 visitors
- Chair from Oct 2018 to Jun 2020
- Skills and technology: Project Management, stakeholder coordination, fundraising, team building

Paramedic

GERMAN RED CROSS

Künzelsau, Germany

October 2015 - September 2021

- Worked full time October 15 - April 17 & January 21 - September 21
- Skills and technology: High pressure performance, attention to detail, algorithmic working, advanced life support, German Healthcare system, pandemic control

Data Science Projects & Products (Selection)

ProposalTutor: Research Proposal assesment using GenAI

<https://github.com/JonasWeinert/ProposalFeedback>

OPEN SOURCE MACHINE LEARNING PROJECT

2024

- Ai Agent that provides feedback on research proposals for quick draft improvement

LATACA: Local Automated Transcription And Content Analysis

<https://github.com/JonasWeinert/LATACA>

OPEN SOURCE MACHINE LEARNING PROJECT

2023

- On device Automatic Speech Recognition & Diarization using fine tuned Whisper small.en model as well as Semantic Content Analysis using BART large
- Fine tuned OpenAI's whisper model to include diarization without other packages (like PyAnnote) based on @akashmjn's work
- Developed a frontend that allows user to input an audio file, export annotated transcriptions, and applied semantic codes in NVivo format
- Skills and technology: ML, diarization, Streamlit for the frontend, Python, Pytorch, Huggingface, Github

ODK cleaning code gernator

https://github.com/JonasWeinert/ODK_CleaningcodeGenerator

OPEN SOURCE PYTHON PROJECT

2023

- Web App that generates Stata and R cleaning code based on XLSForm
- Skills and technology: Streamlit for the frontend, Python, Stata, R, Github

Automatic questionnaire translator

<https://github.com/JonasWeinert/XLSFormTranslator/>

OPEN SOURCE PYTHON & GOOGLE CLOUD PROJECT

2023

- Auto translation using Google cloud for XLSForms
- Skills and technology: Streamlit for the frontend, Python, Jupyter, Google Cloud API services, Github

Cluster Data Merger

<https://github.com/JonasWeinert/ClusterDatasetMerger>

OPEN SOURCE PYTHON PROJECT

2022

- Web app that allows users to merge multi level datasets in wide or long format using a common unique identifier
- Skills and technology: Streamlit for the frontend, Python, Github

Skills

Languages

GERMAN (NATIVE), ENGLISH (C2), FRENCH (CONVERSATIONAL)

Programming Languages

PYTHON, R, GIT, SQL, BASH, STATA, JAVASCRIPT, VBA

Markup Languages

CSS, HTML, L^AT_EX, MARKDOWN, RMARKDOWN

Microsoft Office

EXCEL, OUTLOOK, ONENOTE, POWERBI, POWERPOINT, VISIO, WORD

Other IT

GITHUB, MAXQDA, TABLEAU

Technical Skills

MACHINE LEARNING, ECONOMETRICS, MIXED-METHOD ANALYSES, DATA VISUALISATION

Soft Skills

PROJECT MANAGEMENT, STAKEHOLDER COORDINATION, REPORTING

References available upon request.