GERRIT MICHELE QUAREMBA

+49 157 38228835 ⋄ g.quaremba@gmail.com ⋄ linkedin ⋄ github ⋄ Boston, USA

EDUCATION

King's College London & Imperial College London — 09/2024 - 09/2027
PhD Safe Artificial Intelligence (UKRI CDT) — *London, UK*
Supervisors: Professor Elena Simperl, Dr Elizabeth Black
Research project: Design and evaluation of article generation models (PHAWM)

London School of Economics and Political Science — 09/2022 - 09/2023
MSc Applied Social Data Science (84%, 1st of class) — *London, UK*
Specialisations: ML, NLP, Causal Inference
Thesis: Developed a data labelling framework based on generative LLMs (74%)

University of Hagen — 10/2021 - 04/2022
Single-unit study: Introduction to Object-Oriented Programming in Java (10 ECTS) — *Hagen, Germany*

University of Cologne — 10/2017 - 04/2021
BSc Economics, First Class Honours (1.3/5.0, top 10%) — *Cologne, Germany*
Specialisation: Econometrics, Causal Inference
Thesis: Studied theory of panel data models and replicated Alesina et al. (2017) in R (1.0/5.0)

RESEARCH EXPERIENCE

Harvard Kennedy School, Center for International Development — 09/2023 - present
Research Fellow, Professor Asim Khwaja — *Boston, USA*

- Analysing two large-scale RCTs on enhancing tax compliance and education financing
- Employing IV-regressions, post-double selection Lasso, and ML to predict specific sub-samples

Durham University, School of Government — 11/2022 - 01/2024
Research Assistant, Professor Moritz Osnabruegge — *London, UK*

- Automating the collection and cleaning of text data from European Union legislation
- Measuring the complexity of legislation using ML and NLP

University of Cologne, Chair of Strategy — 04/2022 - 01/2023
Research Assistant, Professor Matthias Heinz — *Cologne, Germany*

- Data cleansing of a large-scale survey on the effects of news images on attitudes towards refugees
- Filtering articles and web scraping images of about 80k newspapers articles
- Devised a script and recorded an exercise session for an introduction to R undergraduate course

University of Cologne, Chair of Microeconomics — 10/2020 - 03/2021
Research Assistant, Professor Oliver Guertler — *Cologne, Germany*

- Cleaned and manipulated large, heterogeneous organisational and sport economic panel data
- Conducted analyses using fixed effects and probit models
- Visualised econometric results for presentations and academic papers

University of Cologne, Chair of Microeconomics — 10/2019 - 03/2021
Research Assistant, Professor Matthias Heinz — *Cologne, Germany*

- Exploratory and descriptive analyses of diverse panel and time series data sets (SOEP, Eurostat)
- Analyses using simple, multivariate, and fixed effects regressions
- Supported the manual collection of media economic data on German news outlets

PROFESSIONAL EXPERIENCE

PricewaterhouseCoopers LLP 04/2022 - 08/2022
Working Student Transfer Pricing Technology *Munich Germany*

- Wrote SQL queries to extract, validate, and import external client data in relational databases

Deutsche Telekom AG 09/2021 - 03/2022
Intern Data Analytics & Visualisation *Bonn, Germany*

- Reported weekly KPI dashboards of telecommunication sales data to the upper management
- Facilitated the automation of the sales reporting using MicroStrategy and web languages

PricewaterhouseCoopers LLP 04/2021 - 09/2021
Intern Transfer Pricing Technology *Munich, Germany*

- Developed, prepared, and implemented transfer pricing analyses dashboards
- Processed and manipulated diverse internal and external data for tax analyses
- Managed and validated multinational client data in relational databases

WORK IN PROGRESS

Osnabruegge, M., Vannoni, M., Lu, X., Quaremba, G. (Expected 2024). Quality of Legislation as a Strategic Component in Legislative Decision-making. Analysis stage. Co-author.

AWARDS

4-year Doctoral Degree NMES Faculty Studentship
Kölner Gymnasial- und Stiftungsfonds, Doctoral Scholarship
Prize for the Best Overall Performance in the MSc, Department of Methodology, LSE
Capstone Project Funding, Department of Methodology, LSE
Kölner Gymnasial- und Stiftungsfonds, Postgraduate Scholarship
Kölner Gymnasial- und Stiftungsfonds, Undergraduate Scholarship

EXTRA-CURRICULAR ACTIVITIES

- Mentor at Project Access, supporting students from underprivileged backgrounds in applying for postgraduate degrees in the UK

- Volunteered at the German-American Conference at the Harvard Kennedy School, where my responsibilities included assisting with panel discussions and handling various organizational and logistical tasks

- Administration of the voluntary initiative ArbeiterKind for working-class children with more than 100 volunteers, where I organised monthly welcoming events for new mentors and mentees

RESEARCH INTERESTS

Methods: NLP, ML, Causal Inference
Fields: Mechanistic Interpretability, Language Models, Hallucination, Reasoning

LANGUAGES

Technical Python (PyTorch, scikit-learn, spaCy), R, STATA, LaTeX (advanced), Java, HTML/CSS (beginner)
Spoken German (native), English (C2, IELTS 8.5/9.0), Italian (B1)