

## Humboldt Research Fellowship in AI-Enhanced Qualitative Health Research

Are you passionate about the intersection of artificial intelligence (AI) and qualitative health research? Do you have a background in AI, computer linguistics, data analytics or similar and a desire to explore new ways technology can advance our understanding of health and wellbeing? We invite you to join [our dynamic team](#) at the Heidelberg Institute of Global Health as a Research Fellow to support the integration of AI into qualitative health research.

- **Location:** Heidelberg Institute of Global Health, Design and Implementation Research Team, Heidelberg Germany
- **Start Date:** Spring (April/May) 2025.
- **Duration:** contingent on level of experience: up to 24 months at post-doc level or up to 18 months for experienced researchers
- **Salary:** The fellowship will be funded via the [Research Fellowships stream](#) of the Alexander von Humboldt Foundation. The foundation funds postdocs at 2700 EUR/mo. (+ benefits) and experienced researchers at 3200 EUR/mo. (+ benefits). Further financial support -- including family benefits for children and partners, subsidies for private full health insurance and allowances for travel expenses and language classes -- is also available.
- **Requirements:** Applicants must meet the Foundation's eligibility criteria detailed [here](#). Note that applicants must have lived outside Germany for a minimum of 12 months in total in the 18-month period prior to submission of the application.

**Application Deadline:** February 15, 2025

### About the Role:

This fellowship offers a unique opportunity to explore and guide the field of qualitative health research on how to apply cutting-edge AI-based techniques within public health, aiming to enhance how we collect, analyze, and interpret data related to health experiences, outcomes, and interventions. You will work alongside a multidisciplinary team of researchers, clinicians, and data scientists to design, implement, and evaluate AI-driven methodologies in qualitative research.

### Key Responsibilities:

- Explore innovative ways for utilizing AI and LLMs to analyze large qualitative datasets, including text (interviews, focus groups, etc.) and non-text (photovoice, drawings, etc.) based data.
- Contribute to the design, implementation, and evaluation of AI tools and platforms that enhance qualitative data analysis processes (e.g., via automating and augmenting qualitative data coding, thematic analysis, and narrative synthesis).
- Collaborate with health researchers to apply the developed approaches in the context of larger Global Health research projects across settings.
- Publish findings in high-impact journals and present research at academic conferences.
- Mentor PhD students and assist in grant writing to support ongoing and future research projects.
- Contribute to or develop lectures on the ethical and rigorous use of AI within qualitative health research.

## Qualifications and experience:

### *Essential*

- A PhD in a relevant field (e.g., AI, data science, health informatics, social sciences, or related disciplines).
- Knowledge of (generative) AI and machine learning algorithms and their applications, particularly in natural language processing (NLP).
- Knowledge of programming languages such as Python, R, or others relevant for exploring AI application in (qualitative) data analysis.
- Excellent communication and organizational skills.
- English language skills (the operating language of this team is English), other languages are an asset.

### *Desirable*

- Previous experience with automated qualitative data analysis
- Previous experience with Qualitative Theory, Methods or Analysis
- Experience with health research
- Experience in interdisciplinary collaboration and working with diverse teams

## Why Join Us:

- Work at the forefront of AI applications in health research (for first publications from our team on ways in which AI and LLMs could influence qualitative (health) research, see [here](#) and [here](#)).
- Collaborate with leading experts in the field of qualitative health research.
- Opportunity to contribute to projects with real-world impact in healthcare, health policy, and patient outcomes.
- Be part of an inclusive, innovative, and supportive research environment.
- Gain or expand access to world-class resources, mentorship, and professional development opportunities.
- Become part of the alumni network of the Humboldt Foundation, which is among Germany's most prestigious funders of science.

## How to Apply:

Please submit your CV, a cover letter outlining your research interests and experience, your contact address, and the names of two academic references in **one PDF file** via [this link](#) by February 15, 2025.

For further information, please contact Jonas Wachinger at [Jonas.wachinger@uni-heidelberg.de](mailto:Jonas.wachinger@uni-heidelberg.de).

We look forward to receiving your application!

The Heidelberg Institute of Global Health is committed to fostering an inclusive and diverse research environment. We encourage applicants specifically females from all backgrounds and communities to apply.