

PhD in Trustworthy AI for Medical Image Analysis (f/m/d)

Faculty of Medicine Tübingen, Hertie Institute for AI in Brain Health, index number 7601



Part-time:
75 %



Limited:
4 years¹



Start of work:
01.07.2026



Application deadline:
17.06.2026



TV-L
i.d.R. E13²

Tasks

- **Model Development:** Train and refine deep learning models for automated glioma diagnostics, with a specific focus on making foundation models less opaque and more interpretable
- **Research & Discovery:** Contribute to the development of novel methods to quantify biological characteristics of tumors and validate these findings against clinical benchmarks
- **Scientific Communication:** Learn to present research at internal and international forums and prepare high-quality manuscripts for publication in scientific journals
- **Academic Growth:** Actively participate in the preparation of research grants and engage in collaborative research to transition from a student to an independent scientist

Profile

- Master's degree (or equivalent) in a quantitative field (e.g., Computer Science, Physics, Data Science, Biomedical Engineering, or Neuroscience)
- Programming skills (Python or R) and prior experience with ML/DL applications
- High degree of independent thinking, curiosity, and an openness to learning how to approach complex scientific questions
- Functional command of English and the willingness to engage with both international and interdisciplinary perspectives (technical engineering, clinical)
- Desire to work closely with clinicians and engineers in a multidisciplinary team
- Interest in oncology or neuro-pathology (prior medical knowledge is not required, but interest is essential)
- Initial experience or interest in learning the nuances of academic writing and structured scientific thought

Benefits

- **Modern Environment:** innovative university hospital, state-of-the-art technology, world-class international research, excellent career prospects
- **Research:** cutting-edge research at the highest level, support from PhD to professorship
- **Career & Development:** structured onboarding, in-house academy, diverse training opportunities, targeted career development
- **Internationality:** cultural & generational diversity, support through language courses, integration programmes (nursing)
- **Equal Opportunities & Diversity:** active promotion of equality, internal committees as a point of contact, network for conflict resolution

About Hertie AI

The "Hertie Institute for AI in Brain Health" (Hertie AI) at the Faculty of Medicine of the Eberhard Karls University Tübingen is funded by the Gemeinnützige Hertie Stiftung to develop AI algorithms, which detect diseases of the nervous system earlier and treat them better.

Contact for questions

Dr. Katharina Höbel
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Online application to

Dr. Katharina Höbel
Index number: 7601
Including CV and cover letter

Application deadline: 17.06.2026

We offer remuneration in accordance with TV-L (collective wage agreement for the Public Service of the German Federal States), severely handicapped persons with equal qualifications are given preferential consideration. Interview expenses are not covered. Please note the applicable vaccination regulations. The employer actively promotes equal opportunities and particularly encourages applications from women.

¹ Continued employment will be sought wherever possible.

² The data provided does not constitute a basis for an employment contract at the University Hospital of Tübingen. It is intended to serve as a rough guide for all interested parties. Remuneration is governed by the applicable collective bargaining agreements in conjunction with the corresponding pay scales. Further information can be found here (<https://www.mezizin.uni-tuebingen.de/de/karriere/gehalt>).



