

3 Fully Funded Doctoral Researcher Positions in

*Correctable Hybrid Artificial Intelligence,
University of Lübeck*

The planned young researcher's group on Correctable Hybrid Artificial Intelligence headed by Dr. Gesina Schwalbe is seeking for applicants to a fixed-term position (100% TV-L E13, approx. 60k€ gross p.a., 3 years). The group is going to be funded by the German Ministry for Education and Research with expected funding period

September 2024 – August 2027.

Selected applicants will develop novel methods for verification, integration and correction of symbolic knowledge within deep neural networks as a step towards future trustworthy artificial intelligence. We are calling for applicants with a background in computer science/mathematics (Master in CS, mathematics or closely related field with good final grade) interested in research towards a doctoral degree in one of the following topic areas:

- *Verification and integration of symbolic constraints into the latent space of deep neural networks using concept embedding vectors for safe & trustworthy AI*
- *Subnetworks and logical units in deep neural networks for the representation, insertion, and correction of logical subtasks encoded within DNNs*
- *Guaranteed DNN performance by verification against symbolic knowledge bases, e.g., for natural language interfaces or robotic applications*

You are interested? Great!

Please contact Dr. Gesina Schwalbe (gesina.schwalbe@uni-luebeck.de) to discuss further steps, including application procedure and availability of funding.