

## About us:

The Chair in Human Geography at the Department of Geography offers a research associate position (Postdoc or PhD student) to support the research activities in the context of the European Research Council (ERC) funded ERC Starting Grant **STORIES (ID: 101040939)**, led by Dr. Liang Emlyn Yang. This is a five-year research project to investigate the dynamic interactions of floods impacts and social resilience in the Mekong River basin. Based on the project, a team of five to seven people is established to do pioneering and impactful science on climate resilience.

We are looking for you:

# Research Position (postdoc or doctoral student) on Modeling Flood Resilience at LMU Munich (m/f/x)

in Munich

## Your tasks and responsibilities:

The research associate shall concentrate on methodological development of Agent-Based Model and/or Social Network Analysis for studying flood resilience, using case studies at the Mekong basin and also beyond. This includes the implementation of data collections from various sources, algorithm design and development, model construction and coding, as well as contributions to necessary field investigations, surveys and expert interviews, as well as local or international conferences.

The researcher will take a leading role in the development of scientific publications, organizing and supporting various activities of the project, and cooperation with members in the project team. The researcher will also contribute to developing new research proposals in the broader field of climate resilience studies.

## Your qualifications:

Required qualifications and experiences:

- Education background in geography or a related discipline in spatial planning, hydrological modeling, geo-informatics sciences, remote sensing, earth observation, machine learning or artificial intelligence, with particular interests in modeling networked human-social systems.
- Strong technic skills and experiences in developing agent-based models, social network analysis, spatial analysis and mapping tools, related AI algorithm and computing expertise.
- Proven skills in qualitative as well as quantitative social science research are preferred. Experience in project management, workshop moderation and organization are advantages.

- Excellent English language skill (written and oral) is prerequisite.
- Willingness to travel for work (field investigations, project meetings, workshops etc.) in China, Vietnam, and other Mekong basin areas is necessary.

Additional assets of interest:

- Expertise in mathematics, statistics, modelling and/or computer programming (e.g. R, Netlogo, Matlab, Python).
- Curiosity and interests in the environmental history, anthropology and culture at the Mekong basin and the Tea-Horse Road area in Southwest China.
- Experience in outreach and communication work at the science-policy-interface.
- Language skills (written and oral) in German, Chinese, and/or that at the Mekong basin.

## Benefits:

A research associate position of three years at LMU Munich. Starting time is expected to be as early as possible but is flexible upon specific situations. The position is suitable for doing a PhD thesis or for advancing a postdoctoral research experience. Remuneration will be according to the German TV-L scheme at the E13 level upon work experience. Further career development will be supported.

We seek to increase the share of women in scientific positions and therefore explicitly encourages women to apply.

Also possible in a part-time capacity.

People with disabilities who are equally as qualified as other applicants will receive preferential treatment.

## Contact:

Applications shall be submitted by filling the online form and uploading one merged PDF document, which shall include a motivation letter, detailed CV, list of publications, a brief research proposal (two-three pages), any relevant certificates and other supportive documents, and contact details of at least two potential references (letter of recommendation is not required). Link to the application form: <https://survey.ifkw.lmu.de/stories2024>. Applications will be considered if submitted by **Sunday, 15 December 2024** in Central Europe Time. We encourage early submissions, which would help disperse our workload of evaluations. This is a reposted vacancy. Applicants in the last round (deadline 14 Jan. 2025) don't need to apply again unless there are significant updates in your profile.

Questions can be drawn to Dr. Liang Emlyn Yang by e-mail ([emlyn.yang@lmu.de](mailto:emlyn.yang@lmu.de)). Relevant information is available on the [website of the STORIES project](#).

Where knowledge is everything.

LMU researchers work at the highest level on the great questions affecting people, society, culture, the environment and technology — supported by experts in administration, IT and tech. **Become part of LMU Munich!**

In the course of your application for an open position at Ludwig-Maximilians-Universität (LMU) München, you will be required to submit personal information. Please be sure to refer to our **LMU Privacy Policy**. By submitting your application, you confirm that you have read and understood our data protection guidelines and privacy policy and that you agree to your data being processed in accordance with the selection process.