

## Job offer: Master student for project "EnviroData"

At the Chair for Model-based Model-based Environmental Exposure Science (MBEES) we are looking for a master's student to work on a project in environmental health research starting from the beginning 2023.

### 9-month paid research project

In the field of environmental health research. A doctoral thesis in the same field would be possible as well.

The environment and human health are linked in several ways. Factors such as air pollution, pollen and temperature affect our well-being and can lead to an increase in hospital admissions and can further lead to reduced life expectancy. At the same time, spending time in nature can be beneficial to human health and can lead to reduced stress levels. The relationships between environmental factors and health outcomes are well known in many cases and are supported by robust data. However, much is still unknown.

The Augsburg University Hospital (UKA) is the central general care provider in the region, and one of the largest hospitals in Germany. Influences of environmental factors will be reflected in the number and type of patients admitted to UKA.

In the proposed project, the aim will be to use hospital admission and environmental data to validate existing relationships between environmental factors and health outcomes as well as to discover new relationships.

In order to be able to freely use the hospitalisation data for teaching in the faculty, a synthetic dataset that has the same statistical properties as the original dataset but contains no personal information is needed. This will form part of the work performed in the project.

Your profile: (At the beginning of 2023) completed master's degree in computer science or a similar discipline, interest in working with large data sets and programming experience in any programming language.

Our offer: Interaction with researchers at the university as well as at the clinical centre, be part of a young research team on a socially relevant topic. Possibility for a doctoral thesis in the same thematic environment.

Should you be interested, please contact **Dr. Bin Zhou** ([bin.zhou@med.uni-augsburg.de](mailto:bin.zhou@med.uni-augsburg.de)) or **Prof. Christoph Knote** ([christoph.knote@med.uni-augsburg.de](mailto:christoph.knote@med.uni-augsburg.de)).