

## Position Opening

The Professorship for Computer Science (**Computational Humanities**) at Julius-Maximilians-Universität Würzburg develops algorithms for analyzing cultural data such as images, video and audio recordings with applications for the humanities. The group is embedded into the Center for Artificial Intelligence and Data Science (CAIDAS) and the Zentrum für Philologie und Digitalität (ZPD).

A particular focus lies on the analysis of **music audio recordings** and their application to large-scale music archives (corpus analysis) for musicological research. We will further develop these as part of the DFG-funded Emmy Noether Junior Research Group on "Computer-based analysis of music recordings: A cross-version approach".

For the preparation of datasets, the implementation of research methods for music analysis and the scientific assessment of evaluation frameworks, we are looking for a

### Student Assistant for Music Processing and Web Technology

for **at least 40 hours per month**, to start as soon as possible. The initial term is 3 months, followed by extensions each six months. The remuneration is in accordance with the rates for student assistants at the University of Würzburg (depending on the study status) and is at least € 13.00 per hour.

The position involves the **following tasks**:

- Investigation and (re-)implementation of music processing algorithms
- Conceptualization and scientific analysis of evaluation frameworks
- Developing an infrastructure for research data management (archiving and backup)
- Implementation of interactive web demonstrators
- Assistance in the installation of a recording studio
- Optionally: participation in the creation of studio and live recordings

The following **requirements** are necessary:

- Very good programming skills in Python
- Good knowledge of audio signal processing / music information retrieval
- Good knowledge of web development
- Basic knowledge of music reading and music theory

The following skills are **beneficial**:

- Audio/studio technology, music production
- Familiarity with database systems
- Music history and music theory (harmony and ear training)
- VR and multimedia technology

What we **offer**:

- Varied and interesting work
- Flexible working hours
- Pleasant working environment in an interdisciplinary team with flat hierarchies
- Opportunity to contribute to two aspiring research centers at the University of Würzburg
- Modern equipped workplaces in the new ZPD research building on Campus Hubland Nord (see photos)

The University of Würzburg is an equal opportunity employer. As such, we explicitly encourage applications from qualified women.

Severely handicapped applicants will be given preferential consideration in the case of broadly equal suitability, ability and professional achievements.

In case you are interested, please send an e-mail with some information about your interests and previous experience and **by 15.1.2024**:

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