



The Faculty of Mathematics and Computer Science at the Julius Maximilian University of Würzburg, in cooperation with the Center for Artificial Intelligence and Data Science (CAIDAS), has a vacancy for a

University Professorship for Applied Super-Resolution

to be filled as soon as possible.

Depending on the qualifications of the applicant, the position will be filled in grade W3 for life, or in grade W2 for a fixed term of 6 years with a tenure-track option to a university professorship in grade W3 for life. In the case of filling the position in grade W2 with tenure-track option, tenure and appointment as a university professor in grade W3 in a civil servant position for life shall only be granted if the university professor has proven him/herself in accordance with the requirements of the university's internal quality assurance concept. The tenure-track procedure can be started at the earliest after a period of employment of two years and six months as a university professor.

The applicant should represent the field of super-resolution with a focus on image analysis in research and teaching and complement the existing research areas. Possible research areas in the field of the professorship are:

- Super-resolution
- Inverse problems
- Spectral imaging
- Super-resolution microscopy
- High resolution telescopes
- Machine Learning for Microscopy
- Machine Learning for Telescopes
- Geometric Deep Learning
- Machine Learning for Photogrammetry
- Restoration

As the professorship is filled as part of a new Interdisciplinary Super-Resolution Research Centre and the Chair of Computer Vision, future collaboration with the Faculty of Medicine or the Faculty of Biology is expected. An initial goal of the interdisciplinary research is the application of super-resolution to microscopic problems.

The teaching duties include offers for the modularised degree programmes of the University of Würzburg at the Institute of Computer Science, the Faculty of Biology and the Faculty of Medicine.

The University of Würzburg attaches great importance to intensive supervision of students and doctoral candidates and expects corresponding commitment from the teaching staff.

The professorship is part of the Center for Artificial Intelligence and Data Science (go.uni-wue.de/caidas). The future post holder is expected to be strongly involved in collaborations with other members of the Center, especially in the field of Artificial Intelligence, Machine Learning and Data Science, but also with other application areas of the Center.

Requirements for appointment are a relevant university degree, pedagogical aptitude, special aptitude for scientific work, which is usually demonstrated by the quality of a doctorate, as well as additional scientific achievements as detailed in Art. 57 para. 1 sentences 3 and 4 BayHIG. The additional academic achievements should have been made in the field of applied super-resolution or in related fields.

In addition, success in national or international third-party funding, extensive publication activities and embedding in an international research environment are expected for the W3 tenured professorship career path.



Pursuant to Art. 60 Para. 3 BayHIG, an appointment to civil service can only be made up to the age of 52. Exceptions are possible in urgent cases.

The University of Würzburg aims to increase the proportion of women in research and teaching and therefore expressly invites applications from suitably qualified female academics.

Severely disabled applicants will be given preference in the case of otherwise essentially equal suitability.

Applications are to be submitted by e-mail to asr@informatik.uni-wuerzburg.de by **22 October 2023**. The usual documents are required (curriculum vitae, certificates, list of publications, research concept, teaching concept, list of courses, teaching evaluations) as well as the three most relevant own publications for the subject area of the professorship as a pdf file. Furthermore, a completed application form is required as a separate xlsx file (go.uni-wue.de/2023-04-registration-form-ot). The documents will be deleted after the end of the appointment procedure in accordance with the requirements of data protection.

To learn more about professorships in Germany (Bavaria), please visit:

<https://www.research-in-bavaria.de/de/how-to-become-a-professor>,

especially the section about professor appointments:

<https://www.research-in-bavaria.de/de/how-to-become-a-professor#c734>

For further information on the advertised professorship, please contact:

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