

Master Thesis – Visualization of mass spectrometric data Institute for Molecular Cardiovascular Research (AG-Jankowski)

The research group of Prof. Dr. Vera Jankowski at the Institute for Molecular Cardiovascular Research (University Hospital Aachen) offers a Master project in an interdisciplinary translational project. This project is part of a collaborative consortium investigating "Mechanisms of cardiovascular complications in chronic kidney disease" (<https://www.sfb-trr219.de/>). We are looking for motivated candidates who share our interest in understanding molecular mechanisms. The group specializes in chromatographic methods for purification of patient samples and mass spectrometric analysis, as well as imaging mass spectrometry. With this expertise, the group supports most of the projects within this consortium, resulting in a broad range of responsibilities.

Topic of the Thesis

The project involves the visualization of various imaging methods in basic medical research. The focus here is the implementation and analysis of mass spectrometric data. For this project, an algorithm is to be further developed and adapted to maximize the flexibility of the data resources that can be used. Applicants should have a Bachelor's degree (BSc) in informatics or bioinformatics or equivalent in simulation sciences, biomedical engineering, media informatics or closely related field. Background knowledge in the field of biology, medicine or health sciences would be preferable.

How to apply?

We look forward to receiving your application. These should include a curriculum vitae, a letter of motivation and copies of your references. Inclusion of letters of recommendation or suggested references is encouraged. Please send your applications to: jhermann@ukaachen.de or sknarren@ukaachen.de.

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