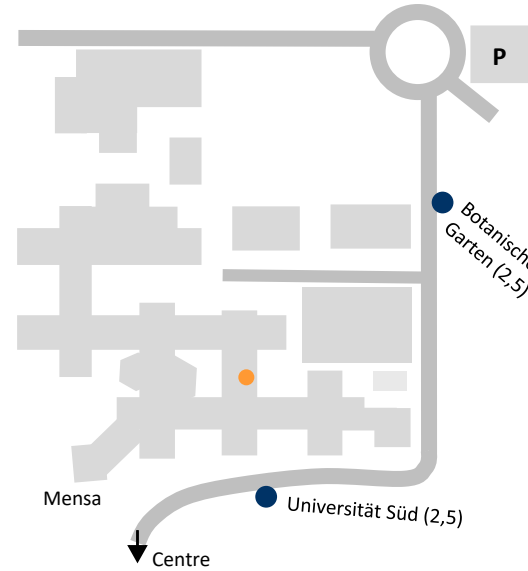


## General information

- **Date:** Mon 17. March & Tue 18. March 2025
- **Location:**  
Universität Ulm  
Albert-Einstein-Allee 11  
89081 Ulm  
Building: M24  
Room: Lecture Hall H10
- **Fee:** 60€ (ISMRRM-Members), 75€ (Non-Members)
- **Language:** English
- **Travel Allowance:** Student members of the DS-ISMRRM can apply for a travel allowance. The prerequisite is student membership of the DS-ISMRRM. The DS-ISMRRM decides on the allocation of travel grants. **Deadline:** 28.2.2025
- **Organisation:**  
Volker Rasche, Ulm University  
Martin Uecker, Graz University of Technology

## MAPS & MOBILITY



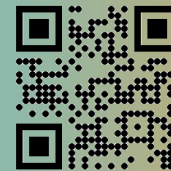
PhD Training

## Interested?

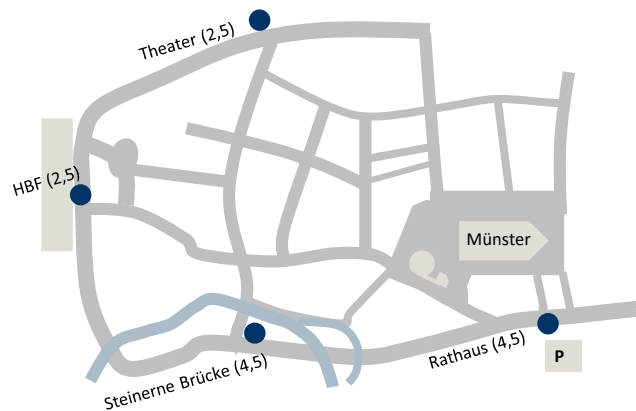
Register here



Journey planner  
(ding.de)



Translational  
cardiovascular  
MR Imaging



Buslinien & Haltestellen

17. & 18. March 2025  
University Ulm  
Lecture Hall H10

Program

**More information & registration** <https://www.uni-ulm.de/einrichtungen/moman/forschungsbereich/academy/phd-training-2025/>

# MONDAY, 17.03.2025

- 9:00 Registration, get-together
- 9:30 Welcome and introduction to the program  
*V. Rasche*

## Anatomy, physiology and pathology of the heart

- 9:40 The human case including image-based biomarkers  
*D. Buckert, UUlM*
- 10:10 The small animal case & differences to humans  
*N. Spielmann, GMC, Munich*
- 10:25 Mouse models and their translatability to humans  
*N. Spielmann, GMC, Munich*

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- 10:45 Break

## Basic cardiovascular imaging methods

- 11:00 Planning & basic protocols for humans  
*D. Buckert, UUlM*
- 11:45 Animal handling, planning & protocols  
*V. Rasche, UUlM*
- 12:30 Lunch

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## Advanced cardiovascular imaging methods

- 13:30 Tissue characterization & functional assessment  
*T. Speidel, UUlM*
- 14:15 Metabolic imaging and spectroscopy  
*J. Schüle, UUlM*
- 15:00 Real-time CMR  
*V. Rasche, UUlM*

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- 15:30 Break

## Hands-on I

- 16:00 CMR in human  
*3T Team*
- 17:00 CMR in mice  
*CF-Team*

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- 19:00 Dinner downtown Ulm

# TUESDAY, 18.03.2025

## Image reconstruction

- 09:00 Basic cardiovascular reconstruction techniques  
*NN, TU Graz*
- 09:30 Advanced reconstruction techniques  
*NN, TU Graz*
- 10:00 BART as reconstruction framework in CMR  
*NN, TU Graz*

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- 11:00 Break

## Hands-on II

- 11:30 Using Bart for conventional data reconstruction  
*NN, TU Graz*

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- 12:30 Lunch

## Hands-on III

- 13:30 Using Bart for real-time data reconstruction  
*NN, TU Graz*
- 14:15 Functional data analysis with segment  
*H. Frantz, UUlM*

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## Alternative imaging techniques

- 15:00 Non-MRI in small animals  
*N. Spielmann, GMC, Munich*
- 15:30 Echocardiography  
*M. Radermacher, UUlM*
- 15:45 Computer Tomography  
*M. Beer, UUlM*
- 16:00 Nuclear imaging techniques  
*A. Beer, UUlM*

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- 16:15 Break

- 16:30 Comparison of functional parameters derived in Session 7

- 16:45 Adjourn