

BRACCO FELLOWSHIPS EDUCATION IN RESEARCH ENROLMENT FORM

Name of Institution: Institute for Diagnostic and Interventional Radiology, Pediatric and Neuroradiology, University Medical Center Rostock

City and Country of Institution: Rostock, Germany

RESEARCH GROUP

The research group "Advanced Cardiovascular and Thoracic Radiology" is an interdisciplinary team dedicated to pioneering novel techniques and applications in the field of cardiovascular CT and MRI. Comprised of experts in radiology, biotechnology, computer science, and applied physics, we are interested in both novel techniques - including applications of artificial intelligence (AI) and how imaging can be used to gain novel insights into cardiovascular disease and enable improved risk stratification and individualized treatment.

TITLE OF PROPOSED RESEARCH PROJECT

AI-driven highly accelerated cardiac MRI

OBJECTIVES

The exact scope of the research project and objectives will be defined together with the applicant prior to his / her arrival in Rostock.

APPLICANT'S DUTIES

- Collecting and analysing imaging data and clinical data.
- Generating figures and tables
- Participating in manuscript writing and editing

APPLICANT'S BENEFITS

- Supervision of research project by group leader, weekly personal meetings.
 - The fellow will be encouraged to present his/her project(s) at national or international conferences.
 - The fellow will be author on publications from his/her research project(s).
 - The fellow will also have the opportunity to observe clinical cardiovascular CT and MRI reading and discussion rounds and interventional procedures, if interested.
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- Project Leader: Prof. Felix Meinel, MD (Radiologist, Professor of Cardiovascular Imaging)
 - Members: Ann-Christin Klemenz, PhD (Medical biotechnologist, postdoctoral researcher); Mathias Manzke, MSc (IT and computer science expert), Stefan Polej, PhD (Medical physicist), several radiology residents and medical students.