

RESEARCH PROJECT

Name of Institution__Department of Diagnostic and Interventional Radiology,

University Hospital Zurich_____

City and Country of Institution_Zurich, Switzerland

RESEARCH GROUP

Opportunity to work in the "Cardiovascular Imaging" research group at the University Hospital Zurich. The focus of research is related to cardiac CT imaging with new technology, i.e., photon-counting detector CT. Research includes optimized coronary CT angiography with the ultra-high resolution mode and spectral cardiac imaging including myocardial late enhancement imaging with the photon-counting detector technology.

TITLE OF PROPOSED RESEARCH PROJECT

Advanced cardiovascular CT imaging

OBJECTIVES

- Learn cardiovascular imaging with photon-counting detector CT
- Help evaluating cardiovascular CT images for various ongoing research
- Coauthorship in an original research paper

APPLICANT'S DUTIES

- Image interpretation
- Readout of CT images
- Initial statistical analyses
- Clinical correlation

APPLICANT'S BENEFITS

- Participation on scientific outcomes of the project i.e. presentations to congresses or publications of papers
 - Scientific publication of an original research manuscript
 - Learning of new state-of-the art techniques/ skills
 - Daily clinical teaching (30 minutes) in our institute
 - Established methodology
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- Project Leader: Prof. Dr. Hatem Alkadhi
 - Members: Matthias Eberhard, Victor Mergen, Konstantin Klambauer, Tristan Demmert, Lukas Moser