



Postdoc in Medical Image Computing, Bonn, Germany

PI: Prof. Dr. Martin Reuter, DZNE Bonn, Harvard Medical School, MGH

<http://reuter.mit.edu>

We are looking for a **Postdoctoral Scientist in Medical Image Computing (f/m)** to join the research group of Prof. Martin Reuter at the German Center for Neurodegenerative Diseases (DZNE) in Bonn, Germany.

Research projects will focus on developing deep learning based image analysis, and geometry/shape processing methods for the automatic analysis of multi-modal human MRI data, primarily with the aim to extract imaging biomarkers that can be leveraged to investigate and diagnose neurodegenerative disease and to provide a rational framework for targeting and monitoring therapy. Several of our methods are part of FreeSurfer (open source) and thus generate large impact and citations.



Your profile:

We seek a postdoctoral candidate with a Ph.D. in computer science, engineering or mathematics with a strong interest in **medical image/geometry processing, machine/deep learning**.

Programming Skills: Programming experience in Python (preferred), (C++ / R / MATLAB is a plus)
Experience in Tensorflow / Keras / PyTorch

Knowledge of state-of-the-art data analyses techniques and neuroimaging software, including FreeSurfer, ANTS, FSL is appreciated but not required. Highly motivated individuals with a record of productive research are encouraged to apply. Excellent written and verbal English communication skills are required.

We offer:

- Integration into the computational imaging environment at DZNE and interdisciplinary interactions with other institutes (e.g. Harvard Medical School, Boston, USA).
- Recently opened DZNE Research Facilities at Bonn Venusberg, hosting a state of the art neuroimaging center with 7T and 3T MRI scanners, as well as state-of-the-art computational infrastructure (HPC Cluster, CPU servers and two GPU servers with each four Tesla V100 GPUs).
- Collaboration with the Rhineland Study, a prospective deeply phenotyped longitudinal cohort study with up to 30.000 participants and high-quality MRI, OCT and MR motion tracker data.
- A strong mentoring program for career development.
- Bonn, located at the Rhine river adjacent to the Cologne metropolitan area, has one of the highest quality of life ratings, with an international student, research and business community.

Interested candidates are encouraged to contact Martin.Reuter@dzne.de (subject "Postdoc MIC-PD-18"). We are looking forward to reading your application including your CV, contact information of two referees, a brief statement describing your personal qualifications and future research interests (up to 1 page), and a list of publications highlighting up to three most important ones (if possible in a single PDF file). Please ask if you have any questions. We look forward to hearing from you. FIND US AT MICCAI, LET'S CHAT !



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MIC-PD-18 – Martin.Reuter@dzne.de