


Curriculum Vitae

Title	Assistant Professor	
Name	Uten Yarach	
Degree	PhD	
Country	Thailand	
Affiliation	Department of Radiologic Technology, Faculty of Associated Medical Sciences, Chiang Mai University	

Educational Background

Doctor rerum Naturalium in Physics Biomedical Magnetic Resonance Department, Otto-von-Guericke University, Magdeburg, Germany

Professional Career

I am currently a Lecturer and Researcher at Department of Radiologic Technology, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand. Prior to this, I had been doing a PhD with Prof. Oliver Speck at BMMR, Magdeburg, Germany (2012-2017), focusing on residual artifact corrections for prospective motion correction for MRI data. After that, I was a postdoctoral fellow at Mayo Clinic until 2020, working on a model-based reconstruction for EPI data under supervision of Prof. Joshua Trzasko. In 2021, I have joined Prof. Kawin Setsompop's group at Stanford University as a Research Collaborator, and have focused on image reconstruction with integrating B0 and Eddy current induced distortion corrections for diffusion MRI data.

Research Field

- MRI reconstructions
- MRI artifact corrections
- Deep Learning for MRI processing
- Diffusion MRI

Main Scientific Publications

1. Yarach, U., Chatnuntawech, I., Liao, C., et al. Blip-up blip-down circular EPI (BUDA-cEPI) for distortion-free dMRI with rapid unrolled deep learning reconstruction. *Magnetic resonance imaging*. 2024: 110277
2. Yarach, U., Chatnuntawech, I., Setsompop, K. et al. Improved reconstruction for highly accelerated propeller diffusion 1.5 T clinical MRI. *Magn Reson Mater Phy* 2024: 37, 283–294.
3. Liao C, Yarach U, Cao X, et al. High-fidelity mesoscale in-vivo diffusion MRI through gSlider-BUDA and circular EPI with S-LORAKS reconstruction. *Neuroimage*. 2023: 275: 120168.
4. In MH, Kang D, Jo HJ, Yarach U. et al. Minimizing susceptibility-induced BOLD sensitivity loss in multi-band accelerated fMRI using point spread function mapping and gradient reversal. *Phys Med Biol*. 9; 68(2).
5. Uten Yarach, Suwit Saekho, Kawin Setsompop, et al. Feasibility of Accelerated 3D T1-Weighted MRI using Compressed-SENSE: Application to Quantitative Volume Measurement of Human Brain Structures” *Magn Reson Mater Phy*. 2021 s10334-021-00939-8
6. Yarach U, In MH, Chatnuntawech I, et al. Model-based iterative reconstruction for single-shot EPI at 7T. *Magn Reson Med* 2017; 78(6):2250-2264.