

Martijn Froeling
Assistant professor
Highfield Research Group
Email: M.FROELING@UMCUTRECHT.NL



Biography

Martijn Froeling has done his master's (July 2009) in Biomedical Engineering at the Eindhoven University of Technology and Performed his PdD studies on Diffusion Tensor Imaging of the human forearm at the Amsterdam University Medical Center and the Eindhoven University of Technology under the supervision of Prof. Dr. Ir. Klaas Nicolay, Prof. Dr. Ir. Gustav Strijkers and Prof. Dr. Ir. Aart Nederveen. Since his Ph.D. (Oktober 2012) he has continued his work on quantitative MRI in various organs such as the brain, peripheral nerves, muscle, kidney, and heart. Since July 2012 he works at the High Field group of the University Medical Center focussing on coil and hardware development for 7T systems and multi-nuclei imaging and clinical studies into neuromuscular diseases. Throughout his career, he has developed and maintained QMRITools for Mathematica, a toolbox for quantitative analysis of magnetic resonance imaging data of muscle, nerve, and heart. In 2021, he was awarded an NWO Vidi grant. In this project, he will study the relation between muscle architecture, microstructure, and function using multi-parametric quantitative MRI. This grant has been the basis for the muscle atlas project, a repository of quantitative MRI muscle data and methods.

Research outputs

Author Correction: Quantitative muscle MRI captures early muscle degeneration in calpainopathy

Forsting, J., Rohm, M., Froeling, M., Güttches, A. K., Südkamp, N., Roos, A., Vorgerd, M., Schlaffke, L. & Rehmann, R., Dec 2024, In: Scientific Reports. 14, 1, p. 1-2 10381.

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Pre-participation screenings frequently miss occult cardiovascular conditions in apparently healthy male middle-aged first-time marathon runners

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Quantitative muscle MRI captures early muscle degeneration in calpainopathy

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Compromised Cardiomyocyte Integrity or Cytosolic Leak? REPLY

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The repeatability of bilateral diffusion tensor imaging (DTI) in the upper leg muscles of healthy adults

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Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI

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Correction to: Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI

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