

**University of Houston - Biomedical Engineering Seminar
Friday, October 18, 2019 Noon, Rm 204 SEC**

Applications of MRI for Brain Research



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Abstract

This presentation will discuss applications of MRI for research purposes. Examples include visualizing and quantifying brain activation and brain connectivity as well as blood flow measurements. Most discussed projects have been performed at the Translational Imaging Center of the Houston Methodist Hospital. This center has been renovated recently and now includes the first FDA-approved 7 Tesla MRI scanner in Texas.

Biosketch

After his Master's Degree in Computational/Theoretical Physics, Dr. Christof Karmonik received his Ph.D. at the University of Saarbrücken in Physical Chemistry characterizing diffusion in solid state protonic conductors. He continued this work as Visiting Scientist at the National Institute of Standards and Technology. After completing a Postdoctoral Fellowship at the MD Anderson Cancer Center in Diagnostic Imaging, he joined the faculty at the Baylor College of Medicine. He is now the Scientific Director at the Translational Imaging Center at the Methodist Hospital Research Institute with a primary academic appointment of Associate Professor of Physics Research in Radiology at the Weill Medical College of Cornell University, New York.