

Biomedical Engineering - Functional MRI Laboratory - The University of Michigan

Douglas C. Noll, Ph.D.

Ann and Robert H. Lurie Professor of [Biomedical Engineering](#)
Chair of [Biomedical Engineering](#)
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My research is focused on the data acquisition and processing for imaging brain function using magnetic resonance imaging (functional MRI or fMRI). Projects include development of rapid image acquisition techniques such as spiral-scan MRI, analysis and elimination of physiological noise (cardiac, respiration) using acquisition and processing methods, elimination of movement artifacts through image registration, characterization of the fMRI temporal response to very short stimuli, and development of image processing and reconstruction methods. In addition to methodological developments, I collaborate closely with cognitive neuroscientists and statisticians on the design of acquisition and processing methods for fMRI experiments.

[My Research Group](#)

[Biographical Info](#) (CV, NIH Biosketches, etc)

[Stuff](#) (Papers, Talks, etc)

[A Primer on MRI and fMRI \(pdf\)](#)

[FTP Site \(ftp\)](#)

Course Links:

[BME 500 - Biomedical Engineering Seminar, Fall 2006](#)

[BME/EECS 516 - Medical Imaging Systems, Fall 2006](#)

[BME 311 - Biomedical Signals and Systems, Winter 2005](#)

[EECS 556 - Image Processing, Winter 2003](#)

[BME 483 - Introduction to Magnetic Resonance Imaging, Winter 2001 \(this class is no longer offered\)](#)

[BME 499.098/Biostats 642/Psych808 - Introduction to Functional MRI, August 2006](#)

Links:

[Campus Maps](#)

[ISMRM Links to MRI Sites](#)

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