

Daniel B. Rowe, Ph.D.
Biophysics 298: Journal Club-Noise in fMRI
Spring Semester 2006

January 13 – Organizational Meeting

January 20 – Andrew Nencka: MRM 3, 604-618 (1986). The Intrinsic Signal-to-Noise Ratio in NMR Imaging. Edelstein et.al.

January 27 – Doug Prah: MRM 2001 Mar;45(3):448-53. Noise correction for the exact determination of apparent diffusion coefficients at low SNR. Sartor et.al.

February 3 – Jun Xie: MRM 51:1194-1204 (2004). Dynamic Field Map Estimation Using a Spiral-In/Spiral-Out Acquisition. Bradley Sutton et.al.

February 10 – Xiaoguang Zhu: Neuroimage – In-press. Spatial resolution, signal-to-noise ratio, and smoothing in multi-subject functional MRI studies. A. Scouten et.al.

February 17 – Karen Medler: Neuroimage – 2005 Aug 26. Nonstationary Noise Estimation in Functional MRI. Long et.al.

February 24 – Eric Paulson: MRM 45(4):635-644. 2001 Estimation of Respiration-induced Noise Fluctuations From Undersampled Multislice fMRI data. Wong et.al.

March 3 – Special Guest Discussion – Doug Ward
Topic – Motion Related Noise → Paper - TBA

March 10 – Guofan Xu: MRM. 2005 May;53(5):1046-54. Theoretical Noise Model for Oxygenation-Sensitive Magnetic Resonance Imaging. Li et.al.

March 17 – Xiping Liu: MRM 2001 Oct;46(4):631-7 Physiological noise in oxygenation-sensitive magnetic resonance imaging.

March 24 – No Class (Spring Break)

March 31 – Christopher Pawela: Acad Radiol. 2002 Nov 9(11):1264-77. Assessment of Medical Imaging and Computer-assist systems: Lessons from recent experience. R. Wagner et.al.

April 7 – Shelly Amen: MRM 36:494-497(1996). Noise in MRI. Albert Macovski
Med.Phys. 22 (7) July 1995 Toward consensus on quantitative assessment of medical imaging systems. Wagner et.al.

April 14 – No Class Rowe travel

April 21 – No Class Rowe travel

April 28 – Dan Rowe – Dealer's Choice

May 5 – No Class (ISMRM)