

# Biomedical Engineering

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Our laboratory uses imaging and modeling for problems in the visual system. Current research includes studies on the mechanics of the human lens using magnetic resonance imaging and computer modeling; the application of independent component analysis to determine control strategies for human eye movements; and the development of novel techniques such as opto-acoustic imaging.

### Recent Papers:

1. Semmlow, JL, and Yuan, W, Adaptive Modification of Disparity Vergence Components: An Independent Component Analysis study Investigative Ophthalmology and Vision Science (In Press).
2. Yuan, W, Semmlow, JL, and Muller-Munoz, P, Model-Based Analysis of Dynamics in Vergence Adaptation IEEE Transactions Biomedical Engineering 48; 1402-1411 (2001).
3. Strenk, S, Strenk L, and Semmlow, JL, High Resolution MRI Study of Circumlental Space in the Aging Eye Journal of Refractive Surgery 16 (2000).



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