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John Strupp is a Research Fellow in the Departments of Radiology and is the Supervisor of the *Computer Resources Group* at the CMRR. Mr. Strupp received a BSEE at the University of Wisconsin - Madison in 1985 and a MSEE at the University of Washington - Seattle in 1992. He is currently a Ph.D candidate in Electrical Engineering here at the University of Minnesota - Minneapolis. He has developed a comprehensive GUI-based Functional MRI image analysis software package called [Stimulate](#).

Research Interests:

- fMRI statistical parametric map generation
- multi-taper spectral analysis techniques
- physiological noise characterization and removal
- inter-subject brain morphing
- Talairach normalization
- non-linear gradient dewarping

Selected Publications:

- Strupp, J, Haralick R *Automated Organ Recognition in Medical Imaging using Three Dimensional Mathematical Morphology* SPIE Medical Imaging VII: Image Processing. Newport Beach, CA February 1993.
- Andersen PM, Rosen ME, Erhard P, Adriany G, Strupp JP, Salmi RJ, Ugurbil K *Over-sampling digital IF receiver for MRI* Proc of Int'l Soc of Magn Reson in Med, New York, NY 1996
- Strupp JP *Stimulate: A GUI based fMRI Analysis Software Package*. NeuroImage 1996
- Ellermann J, Siegal T, Strupp JP, Ebner T, Ugurbil K *Activation of visuomotor systems during visually guided movements - a functional MRI study*. J Magn Reson 1998 131:272-285
- Ugurbil K, Adriany G, Andersen P, Chen W, Hu X, Merkle H, Kim D-S, Kim S-G, Strupp JP, Zhu X, Ogawa, *SMagnetic resonance studies of brain function and neurochemistry*. Annual Rev Biomed Eng 2000 633-660.

- J. Xu,, S. Moeller, E. J. Auerbach, J. Strupp, S. M. Smith, D. A. Feinberg E. Yacoub, K. Ugurbil, *Evaluation of slice accelerations using multiband echo planar imaging at 3 T*. Neuroimage 2013 83:991-1001.
- K. Ugurbil, J. Xu, E. J. Auerbach, S. Moeller, A. T. Vu, J. M. Duarte-Carvajalino, C. Lenglet, X. Wu S. Schmitter, P. F. Van de Moortele, J. Strupp, G. Sapiro, F. De Martino, D. Wang, N. Harel, M. Garwood, L. Chen, D. A. Feinberg, S. M. Smith, K. L. Miller, S. N. Sotiropoulos, S. Jbabdi, J.L. Andersson, T. E. Behrens, M. F. Glasser, D. C. Van Essen, E. Yacoub E; WU-Minn HCP Consortium. *Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project*. Neuroimage 2013 80:80-104.