
BIOGRAPHICAL SKETCH

NAME Li, Yu	POSITION TITLE Research assistant professor		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Illinois at Urbana-Champaign, Urbana, IL	Ph.D.	2002	Electrical and Computer Engineering
University of Illinois at Urbana-Champaign, Urbana, IL	M.S.	2000	Electrical and Computer Engineering
Tsinghua University, Beijing, China	B.S.	1995	Biomedical Engineering

Positions and Employment

- 2010-present Research assistant professor, Cincinnati Children's Hospital Medical Center, Imaging research center
- 2004-2010 Research Scientist, Philips Healthcare, Invivo Diagnostic Imaging, Gainesville, FL
- 2002-2004 Postdoctoral Associate, Advanced magnetic resonance imaging and spectroscopy facilities, University of Florida, Gainesville, FL
- 1998-2002 Research Associate, Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, Urbana, IL

Other Experience and Professional Memberships

Reviewer

- Magnetic Resonance Imaging
- IEEE Transactions on Medical Imaging

Membership

- International Society of Magnetic Resonance in Medicine (ISMRM)

Industry project lead

- 3.0T 32-channel coil array for brain MRI
- 7.0T 28-channel coil array for brain MRI
- Calibrated functional MRI

Selected peer-reviewed publications

1. F. Huang, W. Lin, P. Bornert, **Y. Li**, A. Reykowski, "Data convolution and combination operation (COCOA) for motion ghost artifacts reduction". *Magnetic resonance in medicine* 2010; 64: 157-166.
2. F. Huang, W. Lin, **Y. Li**, "Partial Fourier reconstruction through data fitting and convolution in k-space", *Magnetic resonance in medicine*, 62 (2009), 1261-1269.
3. W. Lin, F. Huang, P. Bornert, **Y. Li**, A. Reykowski, "Motion correction using an enhanced floating navigator and GRAPPA operations", 63 (2010), 339-348.

4. H. Cheng, **Y. Li**, "Respiratory noise correction using phase information", *Magnetic resonance imaging*, 28 (2010) 574-582.
5. **Y. Li**, F. Huang, "Regionally Optimized Reconstruction for Partially Parallel Imaging in MRI Applications", *IEEE Transactions on Medical Imaging*, 28 (2009), 687-695.
6. **Y. Li**, S. Vijayakumar, F. Huang, "Reconstruction in image space using basis functions (RIB) for partially parallel imaging", *Magnetic Resonance Imaging*, 26 (2008), 461-473.
7. F. Huang, **Y. Li**, S. Vijayakumar, S. Hertel, G.R. Duensing, "High-pass GRAPPA: An image support reduction technique for improved partially parallel imaging", *Magnetic Resonance in Medicine*, 59 (2008), 642-649.
8. F. Huang, S. Vijayakumar, **Y. Li**, S. Hertel, G.R. Duensing, "A Software Channel Compression Technique For Faster Reconstruction With Many Channels", *Magnetic Resonance Imaging*, 26 (2008), 133-141.
9. F. Huang, S. Vijayakumar, **Y. Li**, S. Hertel, S. Reza, G.R. Duensing, "Self-calibration method for radial/k-t GRAPPA", *Magnetic Resonance in Medicine*, 57 (2007), 1075-1085.
10. **Y. Li**, S. Reza, M.K. Limkeman, "Phantom calibration method for improved temporal characterization of hemodynamic response in event-related fMRI", *Neuroimage*, 35 (2007) 566-576.
11. **Y. Li**, A. Webb, S. Saha, W. Brey, C. Zachariah, A. Edison, "Comparison of the performance of round and rectangular wire in small solenoids for high-field NMR", *Magnetic Resonance in Chemistry*, 44 (2006), 255-262.
12. **Y. Li**, T. M. Logan, A. S. Edison, A. G. Webb, "Design of Small Volume HX and Triple-resonance Probes for Improved Limits of Detection in Protein NMR Experiments", *Journal of Magnetic Resonance*, 164 (2003), 128-135.
13. **Y. Li**, M. E. Lacey, J. V. Sweedler and A. G. Webb, "Spectral restoration from low signal-to-noise, distorted NMR signals: application to hyphenated capillary electrophoresis-NMR", *Journal of Magnetic Resonance*, 162 (2003), 133-140.
14. **Y. Li**, T. Logan, A. Edison, and A. Webb, "Design and Optimization of High Sensitivity Small Volume Probes for Improved Limits of Detection in Protein NMR Experiments", *National High Magnetic Field Laboratory REPORTS*, Fall 2002, 9, 21-23.
15. **Y. Li**, A. M. Wolters, P.V. Malawey, J. V. Sweedler, and A. G. Webb, "Multiple Solenoidal Microcoil Probes for High-Sensitivity, High-Throughput Nuclear Magnetic Resonance Spectroscopy", *Analytical Chemistry*, 1999, 71, 4815-4820.

Peer Reviewed Conference Papers and Abstracts

Over 50 conference papers and abstracts

Patents

"High field head coil for dual-mode operation in magnetic resonance imaging", US patent 7,253,622
5 pending patent applications.