Curriculum Vitae Xin Yu, Sc.D.

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EDUCATION

1986 B.Sc. in Electrical Engineering

University of Sciences and Technology of China

1990 M.S. in Electrical Engineering

The Johns Hopkins University, Baltimore, MD

1996 Sc.D. in Radiological Sciences

Harvard-MIT Division of Health Sciences and Technology, Cambridge, MA

POSTDOCTORAL TRAINING

1996-1999 Research Associate in Radiology, Duke University Medical Center

ACADEMIC APPOINTMENT

1999-2001	Instructor in Medicine, Washington University School of Medicine, St.	
	Louis, MO	

2001-2004 Affiliate Lecturer in Biomedical Engineering, Washington University, St. Louis, MO

2001-2004 Research Assistant Professor of Medicine, Washington University School of Medicine, St. Louis, MO

Associate Professor of Biomedical Engineering, Case Western Reserve University, Cleveland, OH

2006- Associate Professor of Radiology, Case Western Reserve University, Cleveland, OH

Associate Professor of Physiology and Biophysics, Case Western Reserve University, Cleveland, OH

2009- Associate Professor with Tenure, Department of Biomedical Engineering, Case WesternReserve University, Cleveland, OH

HONORS AND AWARDS

2008

1989-1990	Wolman Fellowship of W.G.C.	Whiting School	l of Engineering,	The Johns
	Hopkins University			

1993-1994 Clement Vaturi Fellowship in Biomedical Engineering, Massachusetts Institute of Technology

Research Award, Case School of Engineering, Case Western Reserve

University

PROFESSIONAL SOCIETIES

1999- International Society of Magnetic Resonance in Medicine

2001- 2001-2004 2002- 2005- 2006- 2007-	American Association for the Advancement of Science Society of Cardiovascular Magnetic Resonance American Heart Association IEEE Engineering in Biology and Medicine Society The Academy of Cardiovascular Research Excellence International Society of Heart Research
	REVIEWER
2000	Journal of Molecular and Cellular Cardiology
2002	NMR in Biomedicine
2004	Annals of Biomedical Engineering
2005	Journal of Magnetic Resonance Imaging
2005	American Journal of Physiology
2006	Journal of Cardiovascular Magnetic Resonance
2006	Magnetic Resonance in Medicine
2008	Investigative Radiology
2008	Computerized Medical Imaging and Graphics
2008	International Journal of Biomedical Imaging
PROFESSI	IONAL ACTIVITIES
2004-2008	Undergraduate Education Committee, Dept. of Biomedical Engineering,
	Case Western Reserve University
2005-	Abstract grader for ISMRM
2005	Secretary, Cleveland Biomedical Imaging Group
2006	Treasurer, Cleveland Biomedical Imaging Group
2006-2008	Undergraduate Studies Committee, Case School of Engineering, Case
	Western Reserve University
2007-2008	Steering Committee, Systems Biology Ph.D. Program, Case Western
	Reserve University
2007	Publications & Communications Committee, International Society of
	Magnetic Resonance in Medicine
2007-2009	Faculty Search Committee, Department of Biomedical Engineering
2008	Organizing committee, CSMRM & OCSMRM Joint Meeting 2008 and
	ESMRMB Workshop, Shenzhen, China
2008	Graduate Education Committee, Dept. of Biomedical Engineering, Case
	Western Reserve University
2008-2009	Vice Chairman, Graduate Studies Committee, Case School of Engineering,
	Case Western Reserve University
2009	Grant reviewer, R2 - Bioengineering and Biotechnology, American Heart
	Association
2009	Grant reviewer, SBIB-V (58)R Challenge Grant Panel #23, NIH
2009	Grant reviewer, ZHL1 CSR-Y (F1), Cardiac Translational Research
	Implementation Program (C-TRIP), NHLBI
2009-2010	Chairman, Graduate Studies Committee, Case School of Engineering, Case
	Western Reserve University
2009-2012	Faculty Council, School of Medicine, Case Western Reserve University
2009	Grant reviewer, R4 - Bioengineering and Biotechnology, American Heart

Association

RECENT PUBLICATIONS

- 1. W Li, J Zhong, X Yu. Quantification of myocardial strain at early systole in mouse heart: restoration of undeformed tagging grid with single-point HARP. JMRI, In press, 2010.
- 2. J Zhong and X Yu. Strain and torsion quantification in mouse hearts under dobutamine stimulation using 2D multi-phase MR DENSE. *Magn. Reson. Med.* In revision, 2010.
- 3. W Li, M Griswold, X Yu. Rapid T1 mapping of mouse myocardium with saturation recovery Look-Locker method. *Magn. Reson. Med.* In revision, 2010.
- 4. W Li, F Bian, P Chaudhuri, X Mao, H Brunengraber, X Yu. Delineation of substrate selection and anaplerosis in citric acid cycle of the heart by 13C NMR spectroscopy and mass spectrometry. *NMR in Biomed*. In revision, 2010.
- 5. W Li, W Liu, J Zhong, X Yu. Early manifestation of alteration in cardiac function in dystrophin deficient mdx mouse using 3D CMR tagging. *J. Cardiovasc. MR.* 11:40-50, 2009
- 6. W Li, M Lu, S Banerjee, J Zhong, A Ye, J Molter, X Yu. Ex vivo diffusion tensor MRI reflects microscopic structural remodeling associated with aging and disease progression in normal and cardiomyopathic Syrian hamsters. *NMR in Biomed*. **22**:819-25, 2009
- 7. J Zhong, W Liu, X Yu. Transmural myocardial strain in mouse: quantification of high-resolution MR tagging using HARP analysis. *Magn. Reson. Med.* **61**:1368-1373, 2009
- 8. M Lu, L Zhou, WC Stanley, ME Cabrera, GM Saidel, X Yu. Role of the malate-aspartate shuttle on the metabolic response to myocardial ischemia. *J. Theor. Biol.* **254**:466–475, 2008.
- 9. J Zhong, W Liu, X Yu. Characterization of three-dimensional myocardial deformation in the mouse heart: an MR tagging study. *J. Magn. Reson. Img.* **27**:1263-1270, 2008
- 10. D Jeyaraj, L Wilson, J Zhong, C Flask, J Saffitz, X Yu, DS Rosenbaum. Segmental strain as novel mechanism for ventricular electrical remodeling underlying T-wave memory. *Circulation*, **115**:3145-3155, 2007
- 11. W Liu, MW Ashford, J Chen, MP Watkins, TA Williams, SA Wickline, X Yu. MR tagging demonstrates quantitative differences in regional ventricular wall motion in mice, rats, and men. *Am. J. Physiol.* **291**:H2515-H2521, 2006
- 12. J Chen, W Liu, H Zhang, L Lacy, X Yang, SK Song, SA Wickline, X Yu. Regional ventricular wall thickening reflects changes in cardiac fiber and sheet structure during contraction: quantification with diffusion tensor MRI. *Am. J. Physiol.* **289**:H1898-H1907, 2005