

Xin Zhou Li

<u>Current Position</u>	Graduate Student Researcher Advisor: Dr. Holden H. Wu Magnetic Resonance Research Laboratory, University of California, Los Angeles Research topic: Interventional MRI, Real-time MRI, Real-time image analysis	Sept. 2015-present
<u>Education</u>	Ph.D Program in Bioengineering University of California, Los Angeles Project: Real-time MRI guided interventions	Sept. 2015-present GPA: 3.55/4.00
	B.S. in Biomedical Engineering and Mechanical Engineering The Pennsylvania State University, University Park. Final Project: IV Therapy UV-C Light Disinfecting Device	Sept. 2010- Dec. 2014 GPA: 3.61/4.00
<u>Experience</u>	Undergraduate Research Assistant Advisor: Dr. Thomas Neuberger and Dr. Corina Drapaca Higher Field Magnetic Resonance Facility in Huck Life Science Institute, Penn State University Research Topic: Needle based mechanical system design for magnetic resonance elastography (MRE)	Fall 2012-Spring 2015
	Undergraduate Research Assistant Advisor: Khanjan Mehta Humanitarian Engineering and Social Entrepreneurship (HSES), Penn State University/Bioengineering, Penn State University Topic: Healthcare market investigation in Kenya, Test Strip design for urinary tract Infection (UTI)	Spring-Summer 2013
	Undergraduate Research Assistant Advisor: Yaohui Bai Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Topic: Mechanism of biological oxidation of manganese.	Summer 2012
<u>Conference Abstract</u>	Li X, Mikael S, Wu HH. Motion Prediction using a Multi-Rate Kalman Filter with Golden Angle Radial Acquisition for Real-Time MRI-Guided Interventions. Proceedings of the ISMRM 26th Annual Meeting, Paris, 2018, p4151. Mikael S, Simonelli J, Li X , Lee Y, Lee YS, Sung K, Lu D, Tsao TC, Wu HH. Accuracy and Time Efficiency of Real-Time MRI-Guided Remote-Controlled Targeted Needle Placement During Motion Using Hydrostatic Actuators. Proceedings of the ISMRM 26th Annual Meeting, Paris, France, 2018, p4163 Martin T, Li X , Del Rosario I, Chanlaw T, Armstrong T, Devaskar S, Janzen C, Masamed R, Wu H, Sung K. Evaluation of Uterine and Placenta Motion throughout Early Gestation. Proceedings of the ISMRM 26th Annual Meeting, Paris, France, 2018, p4698 Li X , Mikael S, Simonelli J, Lee Y, Tsao TC, and Wu HH. Real-Time Motion Prediction for Feedback Control of MRI-Guided Interventions. Proceedings of the ISMRM 25th Annual Meeting, Honolulu, 2017, p5540. Mikael S, Simonelli J, Lee Y, Li X , Sung K, Tsao TC, and Wu HH. Hydrostatically Actuated MRI-Compatible Motion Platform for Dynamic MRI Research. Proceedings of the ISMRM 25th Annual Meeting, Honolulu, 2017, p5557.	

Mikael S, Simonelli J, Lee Y, Li X, Lee YS, Lu D, Sung K, Tsao TC, and Wu HH. Real-Time MRI-Guided Targeted Needle Placement During Motion using RollingDiaphragm Hydrostatic Actuators. Proceedings of the ISMRM 25th Annual Meeting, Honolulu, 2017, p736.

Armstrong T, Martin T, Stemmer A, Li X, Natsuaki Y, Sung K, and Wu HH. Free-breathing Fat Quantification in the Liver Using a Multiecho 3D Stack-of-Radial Technique: Investigation of Motion Compensation and Quantification Accuracy. Proceedings of the ISMRM 25th Annual Meeting, Honolulu, p363.

Conference paper

Simonelli J, Lee Y, Mikael S, Chen C, Li X, Sung K, Lu D, Wu HH, Tsao TC. An MR-Compatible Stage for Respiratory Motion Emulation. International Federation of Automatic Control (IFAC) Papers On Line 2017; 50(1):6073-6078.

Honors and Awards

UCLA Bioengineering PhD fellowship
ISMRM Education Stipend 2017
ISMRM New Entrant Stipend 2015
Summer Discovery Grant for Penn State Undergraduates of 2013
Penn State College of Engineering Capstone Design Best Project Award 2nd place 2014
Penn State Schreyer Ambassador Travel Grant of 2013
Best Design Communication Award at Air Product's Hydrogen Fueling City Design Competition 2011

Academic Societies

International Society of Magnetic Resonance in Medicine (ISMRM)
Biomedical Engineering Society (BMES)
Institute of Electrical and Electronics Engineers (IEEE)

Relevant Courses

Human Physiological System for Bioengineering
Computational Biology: Modeling and Simulation
Physics and Informatics of Medical Imaging

Principle of MRI & Advanced Topics of MRI
Digital Techniques in Radiological Sciences
Human disease: Role of Biomedical Physics

Skills

Programming: MATLAB, C++, Java, Python

Simulation tools: COMSOL, ANSYS

CAD tools: Solidworks

Statistics tools: R, Excel, Minitab