

Shu-Fu Shih

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Office: 300 Medical Plaza, Suite B114, Los Angeles, CA 90095, USA

Current Position

Graduate student researcher

Sep 2018 – present

Advisor: Dr. Holden H. Wu
Magnetic Resonance Research Laboratory
University of California, Los Angeles

Education

Ph.D program in Bioengineering

Sep 2018 – present

University of California, Los Angeles

M.S. in Biomedical Electronics and Bioinformatics

Sep 2015 – June 2017

National Taiwan University, Taipei, Taiwan
Advisor: Dr. Hsiao-Wen Chung
Master's thesis: Feasibility of Accelerated Variable Flip Angle T1
Mapping Using Blind Compressed Sensing

B.S. in Electrical Engineering

Sep 2011 – June 2015

National Taiwan University, Taipei, Taiwan

Experiences

Intern medical engineer

July 2016 – Aug 2016

National Taiwan University Hospital, Taipei, Taiwan
- Conducted project on clinical and engineering aspects of quantitative
Magnetic resonance imaging

Teaching Assistant

Feb 2016 – June 2017

Department of Electrical Engineering, National Taiwan University
Courses: Electronics II (2 semesters) & Electronics III (1 semester)

Research Assistant

Aug 2015 – June 2017

Advisor: Dr. Hsiao-Wen Chung
Magnetic Resonance in Medicine Laboratory
National Taiwan University

Professional and Academic Societies

International Society of Magnetic Resonance in Medicine

Conference Abstracts

[1] **Shu-Fu Shih**, Tess Armstrong, Xiaodong Zhong, Kara L. Calkins, Holden H. Wu, “Accelerated Volumetric Free-Breathing Liver Fat Quantification using Sparsity-Constrained 5D Tensor Reconstruction”, ISMRM Workshop on MRI of Obesity & Metabolic Disorders, Singapore, 2019.

[2] **Shu-Fu Shih**, Hsiao-Wen Chung, “A Weighted Least Squares Approach to Reduce T1 Estimation Bias in DESPOT1”, Proceedings of European Society for Magnetic Resonance in Medicine and Biology, Barcelona, Spain, 2017, p.313-314.

[3] **Shu-Fu Shih**, Hsiao-Wen Chung, “Effects of Sampling Strategy on Two Multi-component Analysis Algorithms in Myelin Water Imaging Using Multi-echo MR Imaging”, Proceedings of the 5th International Congress on Magnetic Resonance Imaging, Seoul, Korea, 2017, p.402-403.

Research Interests

Compressed sensing MRI, Quantitative MRI, Image reconstruction, Non-Cartesian MRI, Body MRI

Honors and Awards

Graduate Division Fellowship, University of California, Los Angeles, September 2018

Best Master’s Thesis Award, Graduate Institute of Biomedical Electronics and Bioinformatics, National Taiwan University, December 2017

ICMRI 2017 Stipend (For outstanding participants in the 5th International Congress on Magnetic Resonance Imaging), March 2017

President Award (Top 5% grade in the department), Department of Electrical Engineering, National Taiwan University, Spring 2015