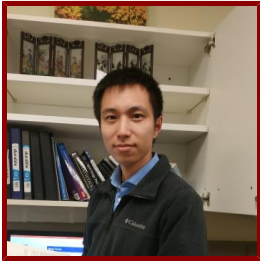


Stanford



Zheng Zhong

Postdoctoral Scholar, Radiology

 Curriculum Vitae available Online

Bio

HONORS AND AWARDS

- Stanford Center for Pediatric IBD and Celiac Disease Research Training Award, Stanford Maternal & Child Health Research Inst. (07/01/2022)

PROFESSIONAL EDUCATION

- PhD, University of Illinois at Chicago , Bioengineering (2021)
- Bachelor, Xidian University , Biomedical Imaging (2011)

STANFORD ADVISORS

- Shreyas Vasawala, Postdoctoral Faculty Sponsor

PATENTS

- Zheng Zhong, Christophor M. Sandino, Shreyas S. Vasawala. "United States Patent 63/313480 Method to Improve the Efficiency of 3D SPGR in MRI", Leland Stanford Junior University, Feb 24, 2022
- XJ Zhou, Zheng Zhong, M.M Karaman. "United States Patent 62,794,326 Methods for Producing Magnetic Resonance Images with Sub-Millisecond Temporal Resolution.", Jan 18, 2020

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My current research focuses on developing novel MRI imaging techniques to accelerate its acquisition speed, including MR sequence pulse design, novel encoding strategy, and deep learning.

LAB AFFILIATIONS

- Shreyas Vasawala, MRSRL (1/18/2021)

Publications

PUBLICATIONS

- **Gradient-echo-train-based sub-millisecond periodic event encoded dynamic imaging with random (k, t)-space undersampling: k-t get-SPEEDI.** *Magnetic resonance in medicine*
Luo, Q., Zhong, Z., Sun, K., Scotti, A., Zhou, X. J.
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- **Three-dimensional reduced field-of-view imaging (3D-rFOVI)** *MAGNETIC RESONANCE IN MEDICINE*
Sun, K., Zhong, Z., Dan, G., Karaman, M., Luo, Q., Zhou, X.
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- **Predicting the aggressiveness of peripheral zone prostate cancer using a fractional order calculus diffusion model** *EUROPEAN JOURNAL OF RADIOLOGY*
Li, Z., Dan, G., Tammana, V., Johnson, S., Zhong, Z., Rabiee, B., Zhou, X., Xie, K. L.
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 - **In-plane simultaneous multisegment imaging using a 2D RF pulse.** *Magnetic resonance in medicine*
Sun, K., Zhong, Z., Xu, Z., Dan, G., Karaman, M. M., Zhou, X. J.
2021
 - **Evaluation of a fractional-order calculus diffusion model and bi-parametric VI-RADS for staging and grading bladder urothelial carcinoma** *EUROPEAN RADIOLOGY*
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 - **MRI with sub-millisecond temporal resolution over a reduced field of view.** *Magnetic resonance in medicine*
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 - **Diffusion in Sephadex Gel Structures: Time Dependency Revealed by Multi-Sequence Acquisition over a Broad Diffusion Time Range** *MATHEMATICS*
Dan, G., Li, W., Zhong, Z., Sun, K., Luo, Q., Magin, R. L., Zhou, X., Karaman, M.
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 - **Visualization of Human Aortic Valve Dynamics Using Magnetic Resonance Imaging with Sub-Millisecond Temporal Resolution** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Zhong, Z., Sun, K., Dan, G., Luo, Q., Farzaneh-Far, A., Karaman, M., Zhou, X.
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 - **Magnetic resonance imaging with submillisecond temporal resolution** *MAGNETIC RESONANCE IN MEDICINE*
Zhong, Z., Sun, K., Karaman, M., Zhou, X.
2021; 85 (5): 2434-2444
 - **High-Spatial-Resolution Diffusion MRI in Parkinson Disease: Lateral Asymmetry of the Substantia Nigra** *RADIOLOGY*
Zhong, Z., Merkitch, D., Karaman, M., Zhang, J., Sui, Y., Goldman, J. G., Zhou, X.
2019; 291 (1): 148-156
 - **White matter structural differences in OSA patients experiencing residual daytime sleepiness with high CPAP use: a non-Gaussian diffusion MRI study** *SLEEP MEDICINE*
Zhang, J., Weaver, T. E., Zhong, Z., Nisi, R. A., Martin, K. R., Steffen, A. D., Karaman, M., Zhou, X.
2019; 53: 51-59
 - **Non-Gaussian diffusion imaging with a fractional order calculus model to predict response of gastrointestinal stromal tumor to second-line sunitinib therapy** *MAGNETIC RESONANCE IN MEDICINE*
Tang, L., Sui, Y., Zhong, Z., Damen, F. C., Li, J., Shen, L., Sun, Y., Zhou, X.
2018; 79 (3): 1399-1406
 - **Discrimination of Malignant versus Benign Mediastinal Lymph Nodes Using Diffusion MRI with an IVIM Model** *EUROPEAN RADIOLOGY*
Qi, L., Yan, W., Chen, K., Zhong, Z., Li, X., Cai, K., Sun, Y., Zhou, X.
2018; 28 (3): 1301-1309