

Kang Yan

Room 2051, 415 Lane Rd MR5,
Charlottesville, VA 22903

 Kang Yan
 kangyans
 wrr6ps@virginia.edu
 (434)-242-1476

EDUCATION

University of Virginia	2021–Present
Ph.D. candidate in the Department of Biomedical Engineering	
Advisor: Prof. Craig H. Meyer	
Shanghai Jiao Tong University	2017–2020
M.S. in the Department of Biomedical Engineering	
Advisor: Prof. Yiping P. Du	
Xidian University	2013–2017
B.S. in the School of Life Science and Technology	

HONORS & AWARDS

ISMARM Educational Stipend(2022/23/24)	2022-2024
Valedictorian, class of 2017(Department-wide)	2017
Outstanding Graduate Award Finalist(Top 0.3%)	2017
The Second Prize Scholarship	2013-2017

INVITED TALKS

[MICCAI-SCMR workshop] C^3 -net	Jan, 2025
-----------------------------------	-----------

SERVICES

JOURNAL REVIEW

- Physics in Medicine & Biology

TEACHING

TEACHING ASSISTANT

BME3310, University of Virginia	Spring,2024
<i>Biomedical Systems Analysis and Design</i> taught by Prof. John A. Hossack	

BME3080, University of Virginia

Fall, 2023

Biomedical Engineering Integrated Design and Experimental Analysis (IDEAS)

taught by Prof. Timothy E. Allen

BME5303, Shanghai Jiao Tong University

Fall, 2019

Principles and Applications of Magnetic Resonance Imaging taught by Prof.

Yiping P. Du

PUBLICATIONS

(*) denotes equal contributions

PEER-REVIEWED PAPERS

- [1] J. Lyu, C. Qin, S. Wang, *et al.*, “The state-of-the-art in cardiac mri reconstruction: Results of the cmrxrecon challenge in miccai 2023,” *Medical Image Analysis*, vol. 101, p. 103 485, 2025, ISSN: 1361-8415. DOI: <https://doi.org/10.1016/j.media.2025.103485>. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S1361841525000337>.
- [2] B. Zufiria *, S. Qiu *, **K. Yan**, *et al.*, “A feature-based convolutional neural network for reconstruction of interventional MRI,” *NMR in Biomedicine*, e4231, 2019.

CONFERENCE PROCEEDINGS

- [1] **K. Yan**, Q. Dou, Z. Wang, F. Xue, and C. H. Meyer, “Optimization of free-breathing spiral cardiac cine imaging at 3T with variable flip angle scheme and region-optimized virtual coils (ROVir),” in *ISMRM*, 2025, [Oral presentation].
- [2] **K. Yan**, Q. Dou, and C. H. Meyer, “Multi-dimensional denoising of diffusion MRI using low rank dictionary learning,” in *ISMRM*, 2024.
- [3] Q. Dou *, **K. Yan** *, S. Chen *, Z. Wang *, X. Feng, and C. H. Meyer, “ C^3 -net: Complex-valued cascading cross-domain convolutional neural network for reconstructing undersampled CMR images,” in *Statistical Atlases and Computational Models of the Heart. Regular and CMR \times Recon Challenge Papers*, Cham: Springer Nature Switzerland, 2024, pp. 390–399, ISBN: 978-3-031-52448-6.

- [4] **K. Yan** and C. H. Meyer, “Accelerated parameter mapping in the k-p domain via nonconvex low rank constraint,” in *ISMRM*, 2023.
- [5] **K. Yan**, H. She, and Y. P. Du, “Simultaneous ADC mapping and water-fat separation with B_0 correction using a rosette acquisition,” in *ISMRM*, 2022.
- [6] **K. Yan**, Z. Wang, Q. Dou, S. Chen, and C. H. Meyer, “Applying advanced denoisers to enhance highly undersampled mri reconstruction under plug-and-play ADMM framework,” in *ISMRM*, 2022.
- [7] Y. Zhang, Z. Wang, Q. Chen, *et al.*, “Dynamic real-time MRI with deep convolutional recurrent neural networks and non-cartesian fidelity,” in *ISMRM*, 2020, [Oral presentation].
- [8] R. Zhao, T. Wang, **K. Yan**, *et al.*, “A recurrent neural network (RNN) based reconstruction of extremely undersampled neuro-interventional MRI,” in *ISMRM*, 2020.
- [9] **K. Yan**, B. Zufiria, A. Singer, *et al.*, “A novel feature-based image reconstruction for neuro-interventional MRI,” in *ISMRM*, 2019.
- [10] S. Li, X. Chen, **K. Yan**, *et al.*, “Dynamic 3D lung MRI using the stack-of-stars sequence with SI navigation,” in *ISMRM*, 2019.
- [11] H. She, Q. Chen, S. Li, *et al.*, “Accelerate parallel CEST imaging with dynamic convolutional recurrent neural network,” in *ISMRM*, 2019, [Oral presentation].

ARXIV

- [1] S. P. Allen, S. Chen, **K. Yan**, and C. H. Meyer, *Long spiral MRI thermometry: A report*, 2023.

PATENTS

- [1] Y. Feng, B. Zufiria, S. Qiu, *et al.*, *Brain tissue rapid imaging and image reconstruction method for magnetic resonance navigation*, CN109872377A, 2019.