Kang Yan

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Charlottesville, VA 22903

Kang Yan
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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

TEACHING

BME3310, University of Virginia Spring,2024

Biomedical Systems Analysis and Design taught by Prof. John A. Hossack
Role: Teaching Assistant

BME3080, University of Virginia Fall, 2023

Biomedical Engineering Integrated Design and Experimental Analysis (IDEAS) taught by Prof. Timothy E. Allen
Role: Teaching Assistant

BME5303, Shanghai Jiao Tong University Fall, 2019

Principles and Applications of Magnetic Resonance Imaging taught by Prof. Yiping P. Du
Role: Teaching Assistant

HONORS & AWARDS

ISMRM 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

SKILLS

MATLAB	Python	HTML	LaTeX
BART	FSL	IDEA(Siemens)	RTHawk(vista.ai)

PUBLICATIONS

(*) denotes equal contributions

Peer-reviewed Papers

[1] 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, and C. H. Meyer, "Multi-dimensional denoising of diffusion MRI using low rank dictionary learning," in *ISMRM*, 2024.

[2] 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×Recon Challenge Papers*, Cham: Springer Nature Switzerland, 2024, pp. 390–399, ISBN: 978-3-031-52448-6.

[3] **K. Yan** and C. H. Meyer, "Accelerated parameter mapping in the k-p domain via nonconvex low rank constraint," in *ISMRM*, 2023.

[4] **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.

[5] **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.

[6] 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].

[7] R. Zhao, T. Wang, **K. Yan**, *et al.*, "A recurrent neural network (RNN) based reconstruction of extremely undersampled neuro-interventional MRI," in *ISMRM*, 2020.

[8] **K. Yan**, B. Zufiria, A. Singer, *et al.*, "A novel feature-based image reconstruction for neuro-interventional MRI," in *ISMRM*, 2019.

[9] S. Li, X. Chen, **K. Yan**, *et al.*, "Dynamic 3D lung MRI using the stack-of-stars sequence with SI navigation," in *ISMRM*, 2019.

[10] 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] J. Lyu, C. Qin, S. Wang, *et al.*, *The state-of-the-art in cardiac MRI reconstruction: Results of the CMR×Recon challenge in MICCAI 2023*, 2024. arXiv: `2404.01082 [eess.IV]`. [Online]. Available: `https://arxiv.org/abs/2404.01082`.

[2] 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.