

Weijie Gan

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RESEARCH INTEREST

Computational Imaging, Biomedical Imaging, and Machine Learning

EDUCATION

Washington University in St. Louis, Saint Louis, United State 2020.08 - Expected 2025
PhD. Student in Computer Science

Washington University in St. Louis, Saint Louis, United State 2018.08 - 2020.05
M.Sc in Computer Science
Thesis: *Toward Practical Learning-Based Image Reconstruction*
Advisor: Prof. Ulugbek S. Kamilov

South China University of Technology, Guangzhou, China 2014.08 - 2018.05
B.Eng in Automation
Advisor: Prof. Hongxia Gao
Dual degree: B.Business in Administration

PUBLICATION

1. **W. Gan***, C. Eldeniz*, S. Chen, T. J. Fraum, D. R. Ludwig, Y. Yan, J. Liu, T. Vahle, U. B. Krishnamurthy, U. S. Kamilov, H. An, "Phase2Phase: Respiratory Motion-Resolved Reconstruction of Free-Breathing MRI Using Deep Learning Without a Ground Truth for Improved Liver Imaging," *Investig. Radiol.*, 2021, in press.
2. **W. Gan**, Y. Sun, C. Eldeniz, H. An and U. S. Kamilov, "Deep Image Reconstruction using Unregistered Measurements without Groundtruth," *Proc. Int. Symp. Biomedical Imaging 2021 (ISBI 2021)* (Nice, France, April 13-16), in press.
3. **W. Gan**, C. Eldeniz, J. Liu, H. An, and U. S. Kamilov, "Image reconstruction for MRI using deep CNN priors trained without ground truth," *Proc. 54th Asilomar Conf. Signals, Systems, & Computers 2020 (Asilomar 2020)*, (Pacific Grove, CA, November 1–5), in press.
4. J. Liu, Y. Sun, C. Eldeniz, **W. Gan**, H. An, and U. S. Kamilov, "RARE: Image Reconstruction using Deep Priors Learned without Ground Truth," *IEEE J. Sel. Top. Signal Process.*, 2020.
5. J. Liu, Y. Sun, **W. Gan**, X. Xu, B. Wohlberg, and U. S. Kamilov, "SGD-Net: Efficient Model-Based Deep Learning with Theoretical Guarantees," *arXiv:2101.09379*, Jan. 2021.
6. H. An, U. S. Kamilov, **W. Gan**, C. Eldeniz, and L. Jiaming, "Systems and methods of reconstructing magnetic resonance images using deep learning," *US Patent App. 17/079,177*, 29 2021.

AWARD

- 2019 Fall & 2020 Spring **Master's Fellowship** of Washington University in St. Louis (1,366.96\$/Month).
- 2019 Fall & 2020 Spring **Engineering School Tuition Scholarship** of Washington University in St. Louis (15% Reduction Tuition \approx 4,500\$ in Total).
- 2015 & 2016 **Annual Third Prize Scholarship** of South China University of Technology.