

Yuxin Zhang

Ph.D. Candidate

.... 1997-09-24 **1** LS2N, Centrale Nantes • France

Google Scholar

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Yuxin-Zhang-Jasmine

digital C.V.

My research interest is in Biomedical Ultrasound imaging. I hold a firm belief in the future of digital healthcare!

Education

🔑 Skills & Languages

2024.12	LS2N, Centrale Nantes, France	US Tools	Field-II, K-Wave, MUST, Aria
2021.09	Ph.D. Candidate •	AI Tools	Pytorch, Tensorflow
	Medical Ultrasound Image Reconstruction with	Coding	Python, MATLAB
2024.04	Deep Learning	os	↑ Linux
2021.06	Centrale Nantes, France	Ob	₩ Elliux
2019.09	2^{nd} Year Master • Signal and Image Processing	Other Tools	Git, Conda, HPC, Latex
	1^{nd} Year Master $ullet$ Industrial Engineering	ΑŻ	English B2 (work), Chinese (native),
2019.06	Harbin Institute of Technology, China	Languages	French B2 (DELF Certificate)
2015.09	Bachelor's Degree • Civil Engineering		

Projects

- > Ultrasound image reconstruction by solving an inverse problem using Denoising Diffusion Restoration Models. Accepted by DGM4MICCAI (Deep Generative Models Workshop @MICCAI) 2023. Code Link, Paper Link
- > Ultrasound despeckling based on the stochasticity of diffusion models. Accepted by EUSIPCO (European Signal Processing Conference) 2024. Code Link, Paper Link
- > Ultrasound Image Enhancement with the Variance of Diffusion Models **Accepted** by IUS (International Ultrasonics Symposium) 2024.
- > Multi-angle planar wave 3D ultrasound imaging with physics-informed implicit neural networks. (ongoing) Accepted by IUS (International Ultrasonics Symposium) 2024.
- > RF data decluttering using an optimized ADMIRE with hyperbolic regularization. (abstract link)

Presentations

2024.03	Ultrasound Imaging based on the Variance of a Diffusion Restoration Model. IABM, Grenoble,		
	France. Poster, Photo		
2023.10	3.10 Ultrasound Image Reconstruction with Denoising Diffusion Restoration Models.		
	DGM4MICCAI@MICCAI2023, Vancouver, Canada. Slides		
2023.06	Ultrasound Image Reconstruction with Deep Learning. ED_seminar, Vannes, France. Slides, Video		
2023.03	Ultrasound Image Reconstruction by Solving an Inverse Problem with Denoising Diffusion		
	Restoration Models. AiBy4_DAY, Nantes, France. Poster1, Poster2, Slides		

Awards & Certifications

- > Outstanding Winner in the Mathematical Contest in Modeling (MCM 2018) (Certificate) (rate< 1%)
- ➤ First Prize in the Chinese Mathematics Competitions (CMC 2017) (Certificate) (rate < 8%)
- > First Prize in the Undergraduate Training Progress for Innovation & Entrepreneurship (2018) (Certificate)
- > Shenyang Eurasia Elite Mechanics Scholarship (Certificate)
- > TensorFlow Developer Certification, Completion Certification in AI Deep Learning Specialization

\$ Other Activities

Gretsi Signal and Image Processing Summer School (Nice, France):, (Certificate) 2022.07 Deep Learning for Medical Imaging Summer School (Montreal, Canada):, (Certificate)