

Zijian Chen

CONTACT INFORMATION	Email: zijianc@bu.edu Homepage: https://zchen.pro Address: 8 St. Mary's Street, PHO 409, Boston, MA 02215	
RESEARCH FOCUS	Signal Processing and Computational MR Neuroimaging	
EDUCATION	Boston University , Boston, MA Ph.D. student in Electrical Engineering (advisor: Archana Venkataraman)	2023-Present
	University of Wisconsin-Madison , Madison, WI M.A. in Mathematics	2021-2023
	Shanghai Jiao Tong University , Shanghai, China Bachelor Minor in Mathematics	2020-2022
	East China Normal University , Shanghai, China B.Sc. in Statistics	2018-2022
SELECTED PUBLICATIONS	<ol style="list-style-type: none">4. A Lesion-aware Edge-based Graph Neural Network for Predicting Language Ability in Patients with Post-stroke Aphasia Chen, Z., Varkanitsa, M., Ishwar, P., Konrad, J., Betke, M., Kiran, S. and Venkataraman, A. <i>MLCN workshop at MICCAI'24</i>. [selected for oral]3. QID²: An Image-Conditioned Diffusion Model for Q-space Up-sampling of DWI Data Chen, Z., Wang, J. and Venkataraman, A. <i>CDMRI workshop at MICCAI'24</i>. [selected for oral]2. Sulcal Pattern Matching with the Wasserstein Distance Chen, Z., Das, S. and Chung, M.K. <i>ISBI'23</i> [invited for special session talk]1. Modeling Cycles in Brain Networks Using Hodge Laplacian Dakurah, S., Anand, D.V., Chen, Z., Chung, M.K. <i>MICCAI'22</i>. [student travel award]	
INVITED TALKS	<i>Oral presentations for conference papers are not listed here.</i>	
	Sulcal Pattern Matching with the Wasserstein Distance , ISBI 2023 Special section <i>Wasserstein Distance in Biomedical Imaging</i> . Invited by Moo K. Chung	2023
	Review of Sample Size Calc. in Phase 3 SARS-CoV-2 Vaccine Clinical Trials , Shanghai Biostatistics Forum (SBF) Q3 Event, 2021. Invited by Jin Xu.	2021
POSTER PRESENTATIONS	<i>Poster presentations at conferences are not listed here.</i>	
	Multiscale Representation of Brain Networks in the Hyperbolic Space , Computation and Informatics in Biology and Medicine Annual Retreat, UW-Madison.	2022
SELECTED ACTIVITIES	Madison Experimental Mathematics Lab @ UW-Madison Mentored four students for undergraduate research project on Ergodic Theory and Dynamics. Title: <i>Vectors of smallest slope for translation surfaces</i> .	2022
	Directed Reading Program @ UW-Madison Organized a reading group for undergraduate students. Topic of the semester: <i>Probabilistic perspectives in machine learning</i>	2022

FELLOWSHIP AND AWARDS	National First Prize in Chinese Undergraduate Mathematical Modeling Contest.	2020
	National Third Prize in Chinese Undergraduate Mathematics Competition.	2019
	ECNU Outstanding Student Fellowship	2019,2020,2021
CODING SKILLS	Python, MATLAB, C++, R (in descending order)	
LANGUAGES	Cantonese (native), Mandarin (fluent), English (fluent)	

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