

# Zijian Chen

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

FELLOWSHIP AND AWARDS	<b>National First Prize</b> in Chinese Undergraduate Mathematical Modeling Contest.	2020
	<b>National Third Prize</b> 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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