Zijian Chen

Contact Information

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Research Focus

Clinical Brain Imaging (for aphasia and autism)

Education

Boston University, Boston, MA 2023-Present
Ph.D. student in Electrical Engineering (advisor: Archana Venkataraman)

University of Wisconsin-Madison, Madison, WI 2021-2023
M.A. in Mathematics

Shanghai Jiao Tong University, Shanghai, China 2020-2022
Bachelor Minor in Mathematics

East China Normal University, Shanghai, China 2018-2022
B.Sc. in Statistics

Selected Publications

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.
MLCN workshop at MICCAI'24. **[selected for oral]**
3. QID^2: An Image-Conditioned Diffusion Model for Q-space Up-sampling of DWI Data
Chen, Z., Wang, J. and Venkataraman, A.
CDMRI workshop at MICCAI'24. **[selected for oral]**
2. Sulcal Pattern Matching with the Wasserstein Distance
Chen, Z., Das, S. and Chung, M.K.
ISBI'23 **[invited for special session talk]**
1. Modeling Cycles in Brain Networks Using Hodge Laplacian
Dakurah, S., Anand, D.V., **Chen, Z.**, Chung, M.K.
MICCAI'22. **[student travel award]**

Invited Talks

Oral presentations for conference papers are not listed here.

Sulcal Pattern Matching with the Wasserstein Distance, 2023
ISBI 2023 Special section *Wasserstein Distance in Biomedical Imaging.*
Invited by Moo K. Chung

Review of Sample Size Calc. in Phase 3 SARS-CoV-2 Vaccine Clinical Trials, 2021
Shanghai Biostatistics Forum (SBF) Q3 Event, 2021.
Invited by Jin Xu.

Poster Presentations

Poster presentations at conferences are not listed here.

Multiscale Representation of Brain Networks in the Hyperbolic Space, 2022
Computation and Informatics in Biology and Medicine Annual Retreat, UW-Madison.

Selected Activities

Madison Experimental Mathematics Lab @ UW-Madison 2022
Mentored four students for undergraduate research project on Ergodic Theory and Dynamics.
Title: *Vectors of smallest slope for translation surfaces.*

Directed Reading Program @ UW-Madison 2022
Organized a reading group for undergraduate students.
Topic of the semester: *Probabilistic perspectives in machine learning*

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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