# ZIJIAN CHEN

Email: zijian.chen@wisc.edu | Homepage: https://zchen.pro

Address: 4720 Medical Sciences Center, 1300 University Avenue, Madison, WI

<b>Boston University</b> incoming Ph.D. student in Electrical Engineering Advisor: Archana Venkataraman	2023 - Now
University of Wisconsin - Madison M.A. in Mathematics (with concentration in probability & PDEs) Visiting Undergraduate student in Mathematics Advisor: Hao Shen	2022 - 2023 2021 - 2022
East China Normal University - Shanghai Jiao Tong University B.Sc. in Statistics Bachelor minor: Mathematics	2018 - 2022 2020 - 2022
RESEARCH AND PROFESSIONAL EXPERIENCE	
RESEARCH AND PROFESSIONAL EXPERIENCE Research Assistantship	
	2021 - 2023

### PUBLICATIONS

FDUCATION

- [4] Chen, Z., Das S., Chung, M.K. 2022, Sulcal Pattern Analysis with the Wasserstein Distance. accepted in ISBI 2023
- [3] Dakurah, S., Anand, D.V., Chen, Z., Chung, M.K. 2022, Modeling Cycles in Brain Networks Using Hodge Laplacian, Medical Image Computing and Computer Assisted Intervention - MICCAI 2022. Lecture Notes in Computer Science, vol 13431. Springer, Cham. (received travel award).
- [2] Chung, M.K., Chen, Z. 2022, Embedding of Functional Human Brain Networks on a Sphere. https://arxiv. org/abs/2204.03653
- Liu, T., Chen, Z., Xu, J. 2021, Epidemiological characteristics and incubation period of SARS-CoV-2 during the 2020-2021 winter pandemic wave in north China: an observational study. J Med Virol.2021;1-6.

#### CONFERENCES AND TALKS

#### Invited talks

- 2023 Sulcal Pattern Matching with the Wasserstein Distance, ISBI 2023 Special section Wasserstein Distance in Biomedical Imaging, in Cartagena de Indias, Columbia. Invited by Moo K. Chung.
- 2021 A review of sample size calculation in Phase III SARS-CoV-2 vaccine clinical trials, Shanghai Biostatistics Forum (SBF) Q3 Event, 2021. Invited by Jin Xu.

#### Poster presentations

2023 Sulcal Pattern Matching with the Wasserstein Distance, ISBI 2023, Cartagena de Indias, Columbia.

## 2022 Multiscale Representation of Brain Networks In The Hyperbolic Space,

2022 Computation and Informatics in Biology and Medicine Annual Retreat, Univ of Wisconsin - Madison.

## TEACHING AND MENTORING

Projects mentored in UW Madison	
• Undergraduate Research Project Project name: Vectors of smallest slope for translation surfaces.	Feb-May. 202
• Directed Reading Program Topic: Probabilistic Perspectives in Machine Learning.	Feb-May. 202
Teaching Assistantship/Graders	
• Course: MATH 320: Linear Algebra and Differential Equations. Univ of Wisconsin - Responsibilities: grading weekly homework and two exams (90 students).	Madison Fall 202
<ul> <li>Course: <i>Biostatistics</i>. East China Normal University Responsibilities: instructing computer lab session (20 credit hours), writing and gradin and holding office hours.</li> <li>FELLOWSHIPS AND AWARDS</li> </ul>	Summer Semester 2021 ng homework, recitation
Fellowships	
• Distinguished Electrical Engineering Fellowship (\$40,000), Boston University	2023
• ECNU Outstanding Student Fellowship (CNY \$3500, CNY \$1000*2).	2019, 2020, 2021
Competetion awards	
• National First Prize in Chinese Undergraduate Mathematical Modeling Contest.	Sep. 2020
• Finalist (top 1% worldwide) in Interdisciplinary Contest in Modeling.	Feb. 2020
• National Third Prize in Chinese Undergraduate Mathematics Competition.	Nov. 2019

## REFERENCES

Available upon requests.