

CURRENT POSITION

Beijing Institute of Mathematical Sciences and Applications

Postdoctoral Fellow

– *Mentor:* Lars Andersson

Beijing, P.R.China

July 2024–

EDUCATION

Zhejiang University

Ph.D. in Pure Mathematics

– *Advisor:* Chengbo Wang

– *Address:* HaiNaYuan Bldg. 2, School of Mathematical Sciences

Hangzhou, P.R.China

September 2019–June 2024

Central South University

Bachelor Degree of Science

Changsha, P.R.China

September 2015–June 2019

RESEARCH INTERESTS

- **Nonlinear dispersive equations**

- * Dispersive estimates

- * Critical exponents and Further problems

- **Analysis**

- * Harmonic analysis on hyperbolic spaces

- **Mathematical Relativity**

PUBLICATIONS AND PREPRINTS

- [1] C. Wang and **X. Zhang**, “An alternative proof of Tataru’s dispersive estimates”, *Forum Math.*, vol. 36, no. 3, pp. 743–764, 2024, ISSN: 0933-7741.
- [2] C. Wang and **X. Zhang**, *Generalized strauss conjecture for semilinear wave equations on \mathbb{R}^3* , 2024. arXiv: 2405.12761 [math.AP].
- [3] C. Wang and **X. Zhang**, *Wave equations with logarithmic nonlinearity on hyperbolic spaces*. 2023. arXiv: 2304.01595 [math.AP].
- [4] **X. Zhang**, *The critical conjecture of wave equations with logarithmic nonlinearity on \mathbb{H}^2* , 2023. arXiv: 2309.10384 [math.AP].

TALKS

- **Wave Equations on Hyperbolic Spaces I**. 2022 International Conference on Geometric Analysis and Hyperbolic Equations. Guangxi Center for Mathematical Research (Online), December 10 - 17, 2022.

- **Wave Equations on Hyperbolic Spaces II.** 2022 Symposium on Partial Differential Equations in Yangtze River Delta and Doctoral Forum (Talks in Sessions: Hyperbolic Equations) (Chinese). College of Sciences, Shanghai University, March 31 - April 2, 2023.
- **Wave Equations on Hyperbolic Spaces III.** Workshop on Wave Equations. School of Mathematical Sciences, Zhejiang University, June 29 - July 1, 2023.

CONFERENCES

- Mathematical Relativity Seminar in Sun Yat-sen University (Chinese). School of Mathematics, Sun Yat-sen University, China, May 19 - 22, 2023.
- International Conference on Nonlinear Waves and Mathematical General Relativity. Department of Mathematical Sciences, Tsinghua University, China, July 10 - 14, 2023.
- Workshop on Nonlinear Dispersive Equations. School of Mathematical Sciences, Fudan University, China, August 26 - 27, 2023.
- Workshop on Nonlinear Hyperbolic PDEs. Mathematical Institute, Tohoku University, Japan, November 22 - 27, 2023.
- Sanya Waves. Tsinghua Sanya International Mathematics Forum, Tsinghua University and BIMSA, China, January 8 - 12, 2024.

TEACHING ASSISTANTS

- Functional Analysis Semester 1, 2019 and Semester 1, 2021
Lecturer: Chengbo Wang
- Ordinary Differential Equations Semester 1, 2020 and Semester 1, 2022
Lecturer: Chengbo Wang

AWARDS AND HONORS

- Third-class Scholarship Central South University, 2016
- Second-class Scholarship Central South University, 2017
- Zhenting Hou Scholarship Central South University, 2017
- Master's National Scholarship Zhejiang University, 2020
- Zhurui Guo Scholarship Zhejiang University, 2023