

Junming Zhang

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Research interests

Higgs bundle, higher Teichmüller theory

Education

- 2022.09 – **Chern Institute of Mathematics, Nankai University** – Tianjin, China
Present Ph.D in Mathematics, Expected Summer 2027
Advisor: Qionglin Li.
- 2018.09 – **School of Mathematical Sciences, Nankai University** – Tianjin, China
2022.06 B.S. in Mathematics

Research

- 2024.06 **Non-maximal Anosov representations from surface groups to $SO_0(2, 3)$**
accepted in Mathematische Annalen, arXiv:2406.08118.
- 2023.09 **Compact relative $SO_0(2, q)$ -character varieties of punctured spheres**
joint with Yu Feng.
arXiv:2309.15553 (submitted).

Undergraduate Research

- 2022.07 **Inequalities related to the S-divergence**
joint with Lin Feng, Lei Li, Yuanming Zhang.
Note di Matematica, Vol. 42 (2022) no. 2, 1 – 6.
- 2022.03 **A nontrivial point on the isogonal pivotal cubic with pivot on the circumcircle**
joint with Junchen Du.
International Journal of Geometry, Vol. 11 (2022), No. 2, 60 – 66.

Teaching experience

- Spring 2024 **Teaching assistant, Introduction to Riemann Surface**
at Nankai University.
- Fall 2021 **Teaching assistant, Introduction to Riemann Surface**
at Nankai University.

Talks

- 2025.08 *Geometry Workshop of the Hitchin–Ngô Laboratory Shanghai at Feishu, Shanghai, August 09, 2025*
- 2025.06 *IHP program “Higher Rank Geometric Structures” at IHP, Paris, June 06, 2025*
- 2025.04 (short talk) *IHP program Introductory School “Geometric Structures & Discrete Group Actions” at CIRM, Marseille, April 15, 2025*
- 2025.02 *UCR Geometry & Topology Seminar at University of California, Riverside, February 28, 2025*
- 2024.03 *Workshop on complex dynamic system and Teichmüller space at Nanjing University, March 30-31, 2024.*
- 2023.12 *Geometry & Topology Seminar at University of Science and Technology of China, December 11, 2023*
- 2023.12 *Seminar at South China University of Technology (online), December 07, 2023*

Awards

- 2023.10 Gongneng Scholarship 2022-2023, First Prize (Nankai University)
- 2023.04 Wukong Scholarship 2022 (School of Mathematical Sciences, Nankai University)
- 2022.11 Graduate Freshmen Scholarship 2022 (Chern Institute of Mathematics, Nankai University)