

Basic Information

- Name: Yunzhi Wang (王云志)
- Education: Chung-Yao Chao Talent Program in Applied Physics, School of Physics, University of Science and Technology of China, 2021.9 - 2025.6 (expected)
- Major: Applied Physics (Condensed Matter Physics)

Contact

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Courses

- GPA: 3.32/4.3
- Ranking: 87/174 (50%)
- Key Courses Taken: Advanced Statistical Physics, Quantum Mechanics, Theoretical Mechanics, Computational Physics; Mathematical Analysis, Linear Algebra, Probability Theory and Mathematical Statistics, Computational Method

Research & Study Interests

- Active Matter
- Jamming transition
- Synchronization & Collective Motion
- Traffic Flow and Transport Theory

Research Experiences

- 2021.9 - 2022.10: Nonequilibrium Phase Transition
Tutor: Yuqing Wang (School of Engineering, USTC)
Project: TASEP Theory in Traffic Flow and Molecular Motor Transport
- 2022.11 - 2023.6: Audio Information Processing with AI
Tutor: Yan Song (School of Information, USTC)

Project: Research on Speech Emotion Recognition Based on the Model Pre-training



(Finished)

- 2023.7-2023.8: X-Institute, Shenzhen (Summer School)
Tutor: Jeff Gore, Hu Jiliang (track tutor); Juan Keymer, Janneke Noorlag (group tutor)
Project: Interactions in Kombucha and Biofilm Applications (Best Award)
- 2023.10-: Soft Matter Physics
Tutor: Hua Tong (School of Physics, USTC)

Teaching Experiences

- 2023FALL: Teaching Assistant, USTC, Hefei, China
Course: Probability Theory and Mathematical Statistics
Teacher: Wei-wei Zhuang
- 2024.1 : Teaching Assistant, X-Institute, Shenzhen, China
Course: AFM & Surface Physics (Track3, Winter Camp for High School Students)
Teacher: Alessandro Siria, Ming Ma

Awards

- Outstanding Student Scholarship (Grade 1/Gold), 2021FA-2022AU

Publications (Co- Author)

- Nonequilibrium phase transitions in a two-channel ASEP with binding energies and analytical evaluations via Kullback-Leibler divergence [Link](#)
- Study of nonequilibrium phase transitions mechanisms in exclusive network and node model of heterogeneous assignment based on real experimental data of KIF3AC and KIF3CC motors [Link](#)