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/Biological Physics)

Contact

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Courses

- GPA：3.2/4.3
- Weighted Average & Average: 82.37 & 83.38
- Ranking：96/165 (58%)
- Key Courses Taken: Advanced Statistical Physics(92); Computational Physics(92); Biological Physics(93); Mathematical Analysis(B1:90, B2:92); Linear Algebra(93); Probability Theory and Mathematical Statistics(90).

Research & Study Interests

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

Research Experiences

- 2021.9 - 2022.10：Nonequilibrium Phase Transition
  Advisor: Yuqing Wang（School of Engineering, USTC）
  Project: TASEP Theory in Traffic Flow and Molecular Motor Transport.

- 2023.7-2023.8： X-Institute, Shenzhen (Summer School)
  Track Advisor: Jeff Gore(MIT), Hu Jiliang(Tsinghua University)
  Group Advisor: Juan Keymer & Janneke Noorlag(X-Institute)

Project: Interactions in Kombucha and Biofilm Applications.（Best Award）

- 2023.10-：Soft Matter Physics
  Advisor: Hua Tong (School of Physics, USTC)
  Project: Simulation-Based Research on Statistical Physics of Biological Tissues Model.

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