

BOYI WANG

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Max Planck Institute for the Physics of Complex Systems

Nöthnitzer Strasse 38, 01187 Dresden, Germany

RESEARCH

- since 2025 Max Planck Institute for the Physics of Complex Systems, Dresden, Germany
Postdoctoral research: Physics of active interfaces in living systems
- 2022–2024 Max Planck Institute for the Physics of Complex Systems, Dresden, Germany
Joint PhD program: Lattice gas model for chiral systems
Supervisor: Prof. Frank Jülicher
- 2019–2021 Institute of Physics, Chinese Academy of Sciences, Beijing, China
Joint PhD program: Rheology and phase behaviours of active rotors
Supervisor: Prof. Fangfu Ye
- 2017–2018 The Institute of Zoology, Chinese Academy of Sciences, Beijing, China
B.Sc. Dissertation: Stem-cell 3D-culture on plant-sourced scaffolds
Supervisor: Prof. Qi Zhou

EDUCATION

- Jan. 2025 University of Chinese Academy of Sciences, Beijing, China
Ph.D. in Condensed Matter Physics
- 2018–2019 University of Chinese Academy of Sciences, Beijing, China
Graduate studies in Condensed Matter Physics
- Jun. 2018 University of Chinese Academy of Sciences, Beijing, China
Bachelor of Science (BSc) in Biological Sciences
- 2017–2018 KTH Royal Institute of Technology, Stockholm, Sweden
Coursework exchange student
- 2014–2018 University of Chinese Academy of Sciences, Beijing, China
Undergraduate studies

PUBLICATIONS

1. Ding, Y., **Wang, B.**, Yang, Q., Zhao, Z., Komura, S., Seto, R., Yang, M. & Ye, F. Odd response-induced phase separation of active spinners. *Research* **7**, 0356 (2024).
2. **Wang, B.**, Jülicher, F. & Pietzonka, P. Condensate Formation in a Chiral Lattice Gas. *New Journal of Physics* **26**, 093031 (2024).

3. Zhang, Y., Wei, D., Wang, X., **Wang, B.**, Li, M., Fang, H., Peng, Y., Fan, Q. & Ye, F. Run-and-tumble dynamics and mechanotaxis discovered in microglial migration. *Research*, 0063 (2023).
4. Zhao, Z., **Wang, B.**, Komura, S., Yang, M., Ye, F. & Seto, R. Emergent stripes of active rotors in shear flows. *Physical Review Research* **3**, 043229 (2021).

TEACHING & SUPERVISING

University1 Name

2021 Teaching assistant, Computational Physics

University2 Name

2025 Co-supervisor on master project

AWARDS & HONOURS

2021 Scholarship of International Cooperation Training Program, University of Chinese Academy of Sciences

2021 Institute Chief Award of Institute, Physics, Chinese Academy of Sciences

2021 Best Short Talk Award, 9th Beijing Soft Matter Workshop

2020 Institute Chief Award, Institute of Physics, Chinese Academy of Sciences

2019 Best Short Talk Award, 6th Beijing Soft Matter Workshop

2018 First-Class Outstanding Freshmen Scholarship, Institute of Physics, Chinese Academy of Sciences

Last updated: June 30, 2025