

CURRICULUM VITAE

Lijie Ding

Department of Physics
Brown University
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Education

- 2022 (expected) Ph.D. (Physics), Brown University
Dissertation: Chiral Liquid Crystal on Deformable Surfaces: A Monte Carlo Study
Advisor: Robert A. Pelcovits and Thomas R. Powers
- 2017 B.Sc. (Applied Physics), University of Science and Technology of China
Thesis: Irreversible Monte Carlo Algorithms
Advisor: Youjin Deng

Publications

4. Lijie Ding, Robert A. Pelcovits, and Thomas R. Powers. Deformation and orientational order of chiral membranes with free edges. *Soft Matter*, 17:6580–6588, 2021
3. Lijie Ding, Robert A Pelcovits, and Thomas R Powers. Shapes of fluid membranes with chiral edges. *Physical Review E*, 102(3):032608, 2020
2. Shayan Lamah, Lijie Ding, and Derek Stein. Controlled Amplification of DNA Brownian Motion Using Electrokinetic Noise. *Physical Review Applied*, 14(5):054042, 2020
1. Eren Metin Elçi, Jens Grimm, Lijie Ding, Abraham Nasrawi, Timothy M Garoni, and Youjin Deng. Lifted worm algorithm for the Ising model. *Physical Review E*, 97(4):042126, 2018

Talks and Posters

11. Poster, 3D structures of chiral membranes with free edges. Physics Department Poster Session. Flatiron Institute(May. 2022)
10. Seminar talks, Shapes and orientational order of colloidal membrane. Oak Ridge National Laboratories (Apr. 2022), Johns Hopkins University (Apr. 2022), Instituto Gulbenkian de Ciência (Apr. 2022), Merck (Mar. 2022), Rice University (Feb. 2022), Sandia National Laboratories (Dec. 2021)
9. Contributed talk, Three-dimensional structures of chiral membrane with edges, APS March Meeting, Session on Membranes, Micelles and Vesicles. Chicago (Mar. 2022)
8. Soundbite, 3D structures of chiral membrane with edges. 89th New England Complex Fluids Meeting. Harvard University (Dec. 2021)
7. Poster, 3D structures of chiral membranes with free edges. Physics Department Poster Session. Brown University(Nov. 2021)

6. Contributed talk, Chiral membranes with orientational order and free edges, APS March Meeting, Session on Membranes, Micelles and Vesicles. Online (Mar. 2021)
5. Soundbite, Membranes with orientational order and free edges. 86th New England Complex Fluids Meeting. Online (Mar. 2021)
4. Poster, Membranes with orientational order and free edges. Physics Department Poster Session. Brown University (Nov. 2020)
3. Soundbite, Shapes of fluid membrane with chiral edges. 81st New England Complex Fluids Meeting. Harvard University (Dec. 2019)
2. Poster, Shapes of fluid membrane with chiral edges. Physics Department Poster Session. Brown University (Nov. 2019)
1. Poster, Membranes with edges. Materials Research Science and Engineering Centers Retreat. Brandeis University (Nov. 2018)

Experience

2018-present Research Assistant, Brown University
 2017-2018 Teaching Assistant (Basic Physics A, B), Brown University
 2016 Teaching Assistant (Mechanics and Thermal Physics), USTC

Awards and Honors

2021 Physics Dissertation Fellowship, Brown University, U.S.
 2016 National Scholarship, Ministry of Education, China
 2015 Grand Prize, China Undergraduate Physics Tournament, China
 2015 National Scholarship, Ministry of Education, China
 2012 Bronze Medal, Chinese Physics Olympiad, China

VITA Prepared May 16, 2022