Yitong Zheng

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EDUCATION

New Haven, United States Yale University Mechanical Engineering and Material Science Ph.D. Program

08/2021-Present

Research Supervisor: Prof. Corey O'Hern

Physical and Engineering Biology (PEB) Program

Wuhan University, School of Physics and Technology

Bachelor of Science

Wuhan, China 09/2017-06/2021

Major: Physics (enrolled in Hongyi Honor Program in 09/2018)

Cumulative GPA: 3.97/4.0; Rank: 1/34

Duke University Durham, United States

Visiting International Students Program • Cumulative GPA: **4.0**/4.0

08/2019-12/2019

RESEARCH EXPERIENCE

Invasion of tumor cells into adipocyte tissue

New Haven, United States 08/2021-Present

Ph.D. Student in Professor Corey O'Hern's Lab at Yale University

Developing 2D and 3D deformable particle model

Conducting simulations of tumor cell invasion into adipocyte tissue with deformable particle model

Potential of Mean Force Between Like-charged Flexible Polyelectrolytes

Wuhan, China 06/2019-06/2021

Research Assistant in Professor Zhi-Jie Tan's Lab at Wuhan University

Conducted Monte Carlo simulations of fixed and rotational rigid polyelectrolytes in salt solution using C language

- Analyzed simulation results
- Wrote the manuscript as first author, accepted by Scientific Reports

Motion of Nanorods in An Unentangled Melt by MD Simulation

Durham, United States

Research Assistant in Professor Michael Rubinstein's Lab at Duke University

08/2019-12/2019

- Executed molecular dynamics simulations of nanorods diffusion in unentangled polymer melts with LAMMPS
- Analyzed simulation results

PUBLICATION

[1] Zheng, Yitong; Lin, Cheng; Zhang, Jin-Si; Tan, Zhi-Jie. Ion-mediated interactions between like-charged polyelectrolytes with bending flexibility. Sci. Rep. (2020). https://www.nature.com/articles/s41598-020-78684-6

[2] Wang, Jiuling; O'Connor, Thomas; Grest, Gary; Zheng, Yitong; Rubinstein, Michael; Ge, Ting. Diffusion of Thin Nanorods in Polymer Melts. Macromolecules (2021). https://pubs.acs.org/doi/10.1021/acs.macromol.1c00989

LEADERSHIP AND WORKING EXPERIENCE

Yale Housing Office, Yale University

New Haven, United States

Community Fellow

08/2022-Present

Organizing monthly social events for residents

Mentorship Program, Wuhan University

Co-Founder, Mentor

Wuhan, China 03/2021-Present

Mentoring college students about their career in academia and application to graduate school

Men's Soccer Team, School of Physics and Technology, Wuhan University

Key Member

Wuhan, China 09/2017-06/2021

- Obtained the Second Place in the 2018 Wuhan University Men's Soccer League
- Obtained the Second Place in the 2020 Wuhan University Men's Soccer League

TECHNICAL SKILLS AND INTERESTS

- Programming and Software: C++, Matlab, Python, LAMMPS
- Hobbies: Soccer (13 years, captain of senior high school soccer team), Go (level: one duan)