Yitong Zheng

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EDUCATION

Yale University

Wuhan University, School of Physics and Technology

Wuhan, China 09/2017-06/2021

Bachelor of Science expected

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

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

Durham, United States

08/2019-12/2019

Duke University

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

New Haven, United States

08/2021-Present

Mechanical Engineering and Material Science Ph.D. Program
Research Supervisor: Prof. Corey O'Hern

• *Physical and Engineering Biology* (PEB) Program

RESEARCH EXPERIENCE

Potential of Mean Force Between Like-charged Flexible Polyelectrolytes

Wuhan, China

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

06/2019-06/2021

- 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

Invasion of tumor cells into adipocyte tissue

New Haven, United States

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

08/2021-Present

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

PUBLICATION

[1] Zheng Yitong, Lin Cheng, Zhang Jin-Si, Tan Zhi-Jie. *Ion-mediated interactions between like-charged polyelectrolytes with bending flexibility*. Sci Rep 10, 21586 (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 54 (15), 7051-7059. https://pubs.acs.org/doi/10.1021/acs.macromol.1c00989

LEADERSHIP AND WORKING EXPERIENCE

Academic Department, Students' Union, School of Physics and Technology, Wuhan University Deputy Director

Wuhan, China 10/2017-10/2018

Organized 2017-2018 China Undergraduate Physicists' Tournament (CUPT) in Wuhan University

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

Wuhan, China 09/2017-06/2021

Key Member

Obtained the Second Place in the 2018 Wuhan University Men's Football League

Obtained the Second Place in the 2020 Wuhan University Men's Football League

Mentorship Program, Wuhan University

Wuhan, China

Co-Founder, Mentor

03/2021-Present

Giving advice to students about their undergraduate career in academia and application to graduate school

TECHNICAL SKILLS AND INTERESTS

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