# Chengxuan Li

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#### **EDUCATION**

College of Arts & Sciences, University of Washington, Seattle, USAGraduate student in Physics Ph.D. ProgramSept 2021 – PresentCollege of Natural Sciences and Mathematics, University of Houston, Houston, USAGraduate student in Physics Ph.D. ProgramAug 2018 – July 2021School of Science, Renmin University of China, Beijing, ChinaB.S. in PhysicsSep 2014 - June 2018

## **RESEARCH EXPERIENCE**

## Exploration of actin networks in cytoskeleton with computational methods

University of Washington, Department of Physics & University of Houston, Department of Physics & Rice University, Center for Theoretical Biological Physics | Graduate Research Assistant

Advisor: Margaret S. Cheung, Professor, Department of PhysicsMay 2019 – Present➤Studying the effect of protein mediated interactions on actomyosin network dynamics

# How Brains Perceive Space Based on Sensory Stimulations from the Environment

University of California Los Angeles, Elegant Mind Club | Undergraduate Research Assistant Advisor: Katsushi Arisaka, Professor, Department of Physics and Astronomy

July 2017 – Sep 2017

Confirmed that motion precedes sensory signals in human brain activity by analyzing EEG data

# The Formation of Low-density Solid in Hybrid Dimensions Using Cold Atom

Renmin University of China, Department of Physics | Undergraduate ResearcherAdvisor: Ran Qi, Assistant Professor, Department of PhysicsMay 2016 – May 2018

Calculated the stable molecular structure of a low-density solid using the Pseudopotential Method and modeled the molecular structure in the lowest-energy condition of one and two dimensions to form the solid lattice

# HONORS & AWARDS

- > 2015 & 2017 Outstanding Class Cadre Scholarship
- ▶ 2015 Social Work and Volunteering Scholarship
- 2021 American Physical Society Division of Biological Physics Shirley Chan Student Travel Grants

## **PUBLICATIONS**

<u>Chengxuan Li</u>, James Liman, Yossi Eliaz and Margaret S. Cheung. "Forecasting Avalanches in Branched Actomyosin Networks with Network Science and Machine Learning." The Journal of Physical Chemistry B (2021).

## **CONFERENCES**

<u>Chengxuan Li</u>, James Liman and Margaret S. Cheung, "Exploring the effect of Arp2/3 concentration on actomyosin network dynamics", Gordon Research Conference on Protein Folding Dynamics (2020).

<u>Chengxuan Li</u>, James Liman, Yossi Eliaz and Margaret S. Cheung, "Exploring the effect of Arp2/3 concentration on actomyosin network dynamics", 65th Biophysical Society Annual Meeting (2021).

<u>Chengxuan Li</u>, James Liman, Yossi Eliaz and Margaret S. Cheung, "Exploring the effect of Arp2/3 concentration on actomyosin network dynamics", American Physical Society March Meeting (2021).

<u>Chengxuan Li</u>, James Liman, Yossi Eliaz and Margaret S. Cheung, "Forecasting Avalanches in Actomyosin Networks with Network Science and Machine Learning", 35th Virtual Anniversary Symposium of The Protein Society (2021).

# SKILLS AND OTHERS

Computer Skills:	Basic: Matlab
	Intermediate: C++, Linux OS, Microsoft Office
	Advanced: Python
Standard Tests:	GRE: Verbal - 152 Quantitative - 170 Analytical Writing – 3.0
	TOEFL: Total 104 (Reading 30, Listening 25, Speaking 24, Writing 25)