

Xiangting Li

Department of Computational Medicine, UCLA
Los Angeles, California, USA

Phone: +1 213-469-8476

Email: xiangting.li@ucla.edu

Education

- 2020-Present PH.D. (EXPECTED) IN COMPUTATIONAL MEDICINE, UCLA
Dissertation Title: Stochastic Dynamics of DNA-Protein Interactions Across Multiple Scales
Advisor: Tom Chou
- 2023 MASTER OF SCIENCE IN BIOMATHEMATICS, UCLA
- 2020 BACHELOR IN INTEGRATED SCIENCE, Peking University, Beijing, China

Research Areas

Stochastic processes, DNA-protein interactions, multiscale analysis, statistical physics.

Skills

Analysis: stochastic analysis, matrix analysis, perturbation theory, first-passage time calculation.

Programming: stochastic simulation, parallel computing in Linux.

Languages: Python, Julia, MATLAB, \LaTeX .

Publications

PUBLISHED WORK

- 2023 **Xiangting Li**, Sara Habibipour, Tom Chou, Otto O. Yang, “The role of APOBEC3-induced mutations in the differential evolution of monkeypox virus” *Virus Evolution*.
- 2023 Jiawei Ding^{*}, **Xiangting Li**^{*}, Jiangchuan Shen, Yiling Zhao, Shuchen Zhong, Luhua Lai, Hengyao Niu, and Zhi Qi, “ssDNA accessibility of Rad51 is regulated by orchestrating multiple RPA dynamics,” *Nature Communications*.
- 2023 **Xiangting Li**, Tom Chou, “Stochastic dynamics and ribosome-RNAP interactions in transcription-translation coupling,” *Biophysical Journal*.

PREPRINTS

- 2023 **Xiangting Li**, Tom Chou, “Stochastic nucleosome disassembly mediated by remodelers and histone fragmentation,” arXiv preprint [2309.02736].

Awards & Honors

2020	Peking University Weiming Scholar
2016	Peking University Freshman Scholarship

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