
SONG LI

Tel: +86 15173181289 Email: songlee@sjtu.edu.cn Location: Shanghai, China

EDUCATION

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|---|-----------|
| Ph.D., Physics, Shanghai Jiao Tong University, Shanghai, China. | 2022-2023 |
| M.S., Physics, Shanghai Jiao Tong University, Shanghai, China. | 2019-2022 |
| B.S., Applied Physics, Central South University, Changsha, China. | 2015-2019 |

RESEARCH

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|---|-----------|
| AI aided protein design and drug design, Ph.D. Research, SJTU. | 2022-2023 |
| Advisor: Prof. Liang Hong, E-mail: hongl3liang@sjtu.edu.cn | |
| Dynamics of protein and hydration water, Master Research, SJTU. | 2019-2022 |
| Advisor: Prof. Liang Hong, E-mail: hongl3liang@sjtu.edu.cn | |

PRESENTATIONS

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| Poster, WLA Research Conference on Click Chemistry, China. | 2023 |
| Oral Presentation, American Physical Society (APS) March Meeting, USA. | 2022 |
| Oral Presentation, Workshop of Condensed Matter Physics, China. | 2021 |

PUBLICATIONS (#co-first author, *corresponding author)

1. **S Li**, P Tan, J Li, M Tang, L Hong.* Many-body effect renders universal subdiffusion to water on different proteins. *Physical Review Research*, 4, L22003 (2022).
2. **S Li**, C Hu, S Ke, C Yang, J Chen, Y Xiong, H Liu,* L Hong.* LS-MolGen: Ligand-and-Structure Dual-Driven Deep Reinforcement Learning for Target-Specific Molecular Generation Improves Binding Affinity and Novelty. *Journal of Chemical Information and Modeling* 2023, 63, 13, 4207-4215.
3. C Hu,# **S Li**,# C Yang, J Chen, Y Xiong, G Fan, H Liu,* L Hong.* ScaffoldGVAE: scaffold generation and hopping of drug molecules via a variational autoencoder based on multi-view graph neural networks. *Journal of Cheminformatics*, 15, 91 (2023).
4. L Zheng,# H Lu,# B Zan,# **S Li**,# H Liu, Z Liu, J Huang, Y Liu, F Jiang, Q Liu,* Y Feng, L Hong.* Loosely-packed Dynamical Structure with Partially-melted Surface Being the Key for Thermophilic Argonaute Proteins Achieving High DNA-cleavage Activity. *Nucleic Acids Research* 2022, 50, 7529-7544.
5. L Zheng,# Z Liu,# Q Zhang,# **S Li**, J Huang, L Zhang, B Zan, M Tyagi, H Cheng,* T Zuo, V Sakai, T Yamada, C Yang, P Tan, F Jiang, H Chen, W Zhuang,* L Hong.* Universal Dynamical Onset in Water at Distinct Material Interfaces. *Chemical Science* 2022, 13, 4341-4351.