

# Haoran SUN

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## EDUCATION

Sept. 2019–June 2023 (expected) **B.Sc.**, Bioinformacis, Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen).  
CGPA: 3.68 (3/35), MGPA: 3.80 (1/35)

## SKILLS

Coding langs	Python, Fortran, CUDA C/Fortran (elementary)
Computer skills	Linux (including system configuration, multi-user management, and software installation), Git, $\LaTeX$
Scientific computing	Numpy, MATLAB
Programming tools	Vim, VSCode, Jupyter Lab
Compt. chem. tools	Gaussian, Amber, Gromacs

## TEACHING EXPERIENCES

Sept. 2021–Dec. 2021 **Undergraduate student teaching fellow (USTF)**, Computation Biology (BIM2005), CUHK-Shenzhen, 4 tutorial sessions.

- Tutorial session about how to use molecular docking tool Autodock-vina.
- Tutorial session to help the student review basic principles of quantum mechanics and quantum chemistry.
- Tutorial session about the mathematical background and hands-on python implementation of principal component decomposition (PCA) algorithm.

Jan. 2022–May 2022 (expected) **Undergraduate student teaching fellow (USTF)**, Organic Chemistry (BIO2003), CUHK-Shenzhen.

## RESEARCH EXPERIENCES

Apr. 2021–May 2023 (expected) **Research assistant**, Hajime HIRAO's research group, Warshel Institute for Computational Biology. Computational chemistry/biology, MD simulation, QM/MM

Jan. 2020–Apr. 2021 **Research assistant**, Hsien-da HUANG's research group, Warshel Institute for Computational Biology.  
Multi-omics research, expression data analysis

## RESEARCH INTERESTS

Computational chemistry/biology, development of free-energy calculation and TS-searching algorithms, statistical learning applied to computational chemistry/biology.

## ACHIEVEMENTS AND HONORS

Sep. 2018 **The First prize**, Chinese Chemistry Olympiad, provincial level.

Sept. 2019–June 2023 (expected) **Bowen Scholarship**, 30,000 RMB/Year (total 120,000 RMB), CUHK-Shenzhen.

Sep. 2020 **Academic Year 2019-20 Dean's List Award**, School of Science and Engineering, CUHK-Shenzhen.

Sep. 2021 **Academic Year 2020-21 Dean's List Award**, School of Life and Health Sciences, CUHK-Shenzhen.

Sep. 2021 **The Second prize**, Contemporary Undergraduate Mathematical Contest in Modeling, provincial level.

## LANGUAGE SKILLS

Chinese (native), English (will have a TOEFL test in March), Japanese (elementary, only be able to read)