

# Haoran SUN

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*The world opens itself before those with noble hearts.*

## EDUCATION

Sept. 2019–June 2023  
(expected) **B.Sc.**, Bioinformacis and mathematics (minor), Chinese university of Hong Kong, Shenzhen (CUHK-Shenzhen).  
Major GPA: 3.7, minor GPA: 3.x, cumulative GPA: 3.6  
Ranking: 5/35

## SKILLS

Coding langs	Python, Fortran, CUDA C/Fortran
Computer skills	Linux, 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 student review basic principles of quantum mechanics and quantum chemistry.
- Tutorial session about mathematical background and hands-on python implementation of principle component decomposition (PCA) algorithm.

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

- Tutorial session about...

## PROJECTS

Nov. 2021 Parallel tempering of 1-D particle using Fortran

## 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 on computational chemistry/biology.

## ACHIEVEMENTS AND HONORS

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

Sep. 2019–June 2023 **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.
- Sep. 2022 **Academic Year 2021-22 Dean's List Award**, School of Life and Health Sciences, CUHK-Shenzhen.

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## LANGUAGE SKILLS

Chinese (native), English (TOEFL xxx), Japanese (elementary, only be able to read)