# Haoran SUN

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

## EDUCATION

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|---|---|
| Sept. 2019–June 2023 (expected) | **B.Sc.**, Bioinformacis, Chinese university of Hong Kong, Shenzhen (CUHK-Shenzhen). <br> CGPA: 3.6, MGPA: 3.7 <br> Ranking: 5/35 |

## SKILLS

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|---|---|
| Coding langs | Python, Fortran, CUDA C/Fortran |
| 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

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| Sept. 2021–Dec. 2021 | **Undergraduate student teaching fellow (USTF)**, Computation Biology (BIM2005), CUHK-Shenzhen, 4 tutorial sessions. <br> ○ Tuturial session about how to use molecular docking tool Autodock-vina. <br> ○ Tutorial session to help student review basic principles of quantum mechanics and quantum chemistry. <br> ○ 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. <br> ○ Tutorial session about... |

## PROJECTS

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

## RESEARCH EXPERIENCES

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| Apr. 2021–May 2023 (expected) | **Research assistant**, Hajime HIRAO's research group, Warshel Institute for Computational Biology. <br> Computational chemistry/biology, MD simulation, QM/MM |
| Jan. 2020–Apr. 2021 | **Research assistant**, Hsien-da HUANG's research group, Warshel Institute for Computational Biology. <br> 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

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| 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. |

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|---|---|
| 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. |

## LANGUAGE SKILLS

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