

# ZHENG Ce

Homepage: [czhengai.github.io](https://czhengai.github.io)

Undergraduate, The Hong Kong University of Science and Technology

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## PROFILE STATEMENT

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I am an undergraduate student at the Hong Kong University of Science and Technology, specializing in experimental condensed matter physics with a focus on topological materials. Alongside my studies, I have taken the initiative to establish the Physics Student Club and serve as its Deputy Chair of External Affairs, showcasing my leadership and organizational skills. Driven by a passion for exploration and a commitment to excellence, I am dedicated to making significant contributions in the field of topological materials through my research and experimental expertise. With a strong aptitude for teamwork and effective communication, I collaborate seamlessly with fellow team members to achieve shared goals and employ innovative problem-solving strategies in challenging situations. Overall, as an enthusiastic and driven undergraduate physicist, I am poised to make a positive impact in the academic community and contribute to scientific progress.

## EDUCATION

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- **The Hong Kong University of Science and Technology** 2021.09-current  
*Major: Physics* Hong Kong SAR
  - Courses: Computational Physics, Quantum Physics, Optics, Data analysis...
  - Research: Charge Density Wave in magnetic property(PHYS 3090), Kagome metal growth with MBE and its transport measurement(UROP 1000)
- **Fudan University** 2023.08-2023.08  
*International summer school of quantum physics* Shanghai,PRC
  - Content: Condensed matter physics, quantum computing, superconductivity
- **Fudan University** 2021.12-2022.01  
*Winter School held by School of Economics*
  - Content: Psychology
- **Harbin Normal University High School** 2018.09-2021.06  
*High School Diploma* Harbin, PRC
  - Graduate with 1st prize honor scholarship

## EXPERIENCE

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- **Integrated Lab for quantum materials and devices** 2023.08-now  
*Research student* Hong Kong SAR
  - Supervisor: Shiming Lei
  - Task: Establishing the lab, Growing and measuring crystals
  - Research area: Crystal growth, Charge Density Wave in samples
- **JAECK Lab** 2022.01-now  
*Research student* Hong Kong SAR
  - Supervisor: Berthold Jaeck
  - Task: Programming the automatic routine for PPMS, Detecting properties of samples with PPMS
  - Research area: Samples growth with MBE, transport properties measurement
- **Shenzhen Senior High School** 2023.03-2023.07  
*Teaching assistant* Shenzhen,PRC
  - Teaching physics Olympiad
- **Harbin Normal University High School** 2022.06-2022.09  
*Teaching assistant* Harbin,PRC
  - Teaching basic concepts of physics competition
  - Organizing mock exams for students and correcting papers

•**Beijing Zhixin Co.ltd**

2022.03-2022.06

*Teaching assistant*

Beijing,PRC

- correcting the papers for physics Olympiad mock exam
- Explaining the related concepts of papers to students

**POSITIONS OF RESPONSIBILITY**

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|---|-----------------|
| • <b>External Vice President</b> , Physics Student Club, HKUST                      | 2022.11-now     |
| • <b>Representative</b> , Student-Staff Liaison Committees, HKUST                   | 2023.03         |
| • <b>Founder</b> , Physics Student Club, HKUST                                      | 2022.11         |
| • <b>Student Ambassador</b> , Mainland Society of Students and Scholars (UG), HKUST | 2022.09-2022.11 |
| • <b>Student Ambassador</b> , URAO, HKUST   | 2021.12-2022.01 |
| • <b>Membership</b> , American Physics Society, US                                  | 2022.08-now     |
| • <b>Membership</b> , Institute of Physics, UK                                      | 2022.08-now     |
| • <b>Membership</b> , Chinese Physics Society, PRC                                  | 2023.01-now     |

**TECHNICAL SKILLS AND INTERESTS**

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**Languages:** English, Mandarin, Cantonese

**Programming Skills:** Python, Matlab, C++

**Academic Software:** Materials Studio, Vesta, Solidworks

**Academic Interest:** Solid state physics, topology insulator, semiconductor physics

**Personal Interest:** Hiking, Badminton, Skating