

ZHENG Ce

Undergraduate, The Hong Kong University of Science and Technology

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PROFILE STATEMENT

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

- **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

- **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

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

TECHNICAL SKILLS AND INTERESTS

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