

COURSES

Quantum Physics	4.3
Physical Chemistry	3.7
General Chemistry	4.3
Organic Chemistry	4.3
Inorganic Chemistry	4.3
Quantum Chemistry	3.7

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CHUNYU YANG

Student in USTC, Department of Chemical Physics

PROFILE

I'm a student in the School of Materials and Chemistry at the University of Science and Technology of China (USTC), Department of Chemical Physics. Until now I have got a Cumulative GPA of 3.73 ranked 11 of 97 in the School of Materials and Chemistry. Besides, I am already equipped with the skills of programming language C, C++ and Python, scientific computation software Matlab, Mathematica, computational chemistry software Materials Studio (castep module). Now I'm expecting a summer internship in Chemistry. I'm interested in theoretical computational chemistry. If you are interested in me or want to know more detailedly about me, please contact me by email.

RESEAECH EXPERIENCE

Computation Materials

Tutored by Professor Ming-Hsien Lee (From Danjiang University)

This is the course of Computation Materials, which invites the developer of castep, Ming-Hsien Lee, to give the lessons. The course is research-based and gave us four missions about the properties of materials like electroconductivity, Infrared Spectroscopy, etc. In this course, I finally got a grade point of 98.

Technologies & Knowledge include:

Materials Studio

Quantum Heat Engine With Reset Laboratory of Unlinear Chemistry of USTC, tutored by Professor Zhonghuai Hou, corporate with Buicheng

2022 Oct-Now

2022 July-2022 Aug

by Professor Zhonghuai Hou, corporate with Ruicheng Bao (Master in our group) Quantum thermodynamics is an emerging field in view of the significant progress

Quantum thermodynamics is an emerging field in view of the significant progress of technology which allows one to scale down heat-energy converting devices to nanoscale where quantum effects become crucial. We use the model from a prl in 2022 Aug and try to add a reset to the model and then analyze the efficiency of the QHE and the time it need to enter the status of working.

Technologies & Knowledge include:

- Statistical Mechanics;
- Quantum Mechanics;
- use Mathematica to solve equations;

Research on the action mechanism of moisturizer and sunscreen products Seminar course of Science and Society of USTC, tutored by Zhengjin Yang 2020 Sep-2021 June

EDUCATION

2017 - 2020

Sihong Middle School in Jiangsu Province

2020 - 2024

Chemical Physics

University of Science & Technology of China

SKILLS

- Progamming Language:
 - C,
 - C++,
 - Python;
- Software of Scientific Computing:
 - Materials Studio,
 - Pyscf of Python
 - Mathematica,
 - Matlab;
- Draw Figures For Scientific Research:
 - Origin,
 - Matplotlib of Python;
- Paper & Report writing:

– l^{et}eX.



AWARDS

- 2019.10 First prize of Chinese Chemistry Olympiad (Province devision);
- 2021.10 Outstanding student scholarship (silver) given by USTC;

2021.10 Lu Jiaxi Chemical Science and Technology Talent Class Scholarship;

2022.10 Suzhou Yu Cai Scholarship sponsored by Suzhou;

2022.10 Lu Jiaxi Chemical Science and Technology Talent Class Scholarship;

TEACHING ASSISTANT EXPERIENCE

Quantum Physics

2022 Sep - 2021 Jan

Taught by Professor Hou Zhonghuai and Li Weixue

Responsible for checking the assignments and answering the questions of students taking the course.

WORKING EXPERIENCE

Deputy monitor

School of Materials Science and Chemistry, Undergraduate Class 3, Grade 2020

Person in charge

2021 July - 2022 July

2021 Sep - Now

Youth Volunteer Association of School of Materials Science and Chemistry

Responsible for arranging the voluntary activities. Including arranging the 'Sunshine Jaunt', cooperating with Chunya Institute of Hefei, to help disabled children.