

# RUIHAO BI

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## EDUCATION

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### College of Chemistry, Xiamen University (XMU)

Xiamen, China

Bachelor Candidate of Chemistry

Sept. 2017 – present

- 1<sup>st</sup> Year: College of Materials, 2<sup>nd</sup>–4<sup>th</sup> Year: College of Chemistry.
- Overall GPA: 3.79/4.00, Major GPA: 3.85/4.00, Rank: 3/96.
- TOEFL iBT: 100 (R29, L28, S22, W21), Jun. 2019.

#### Relevant Courses:

- Calculus I (100/100, top 1%), Calculus II (95/100, top 2%), Physics I (93/100, top 1%), Physical Chemistry II (95/100, top 3%), Chemical Kinetics & Reaction Dynamics (95/100, top 1%), Organic Synthetic Chemistry (97/100, top 1%)

## RESEARCH EXPERIENCE

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### Synthetic Study towards Clionastatin B

Jun. 2019 – May 2021

Prof. Yandong, Zhang    Ph.D candidate Hao, Cui

The Zhang Group - XMU

- Two-year training in synthetic organic chemistry;
- Optimizations for a diastereoselective epoxydation of testosterone and an enone formation;
- Trained in analysing <sup>1</sup>H-NMR of interested molecules.

## CONTEST EXPERIENCE

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### Mathematical Contest in Modelling (MCM)

Mar. 2020

Student Advider: Jiasheng Zou

- Designated as **Successful Participant**, collabrated with two fellow members;
- Responsible for a matrix-based model for the structural stability of several sandcastle structures.

## SOFTWARE SKILLS

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### Programming Language: C, shell, Python (beginner)

- **Data manipulation:** Linear and non-linear fitting, Newton's method for solving equations with `numpy`, `scipy`, `sympy` (Python);
- **Scientific plotting:** Plots for physical chemistry experiments reports were done by `matplotlib` (Python);

### Practical Softwares: Topspin, MestresNova, vim (beginner); Chemoffice, L<sup>A</sup>T<sub>E</sub>X(intermediate)

- The compiling of multiple key essays (bachelor thesis, MCM essay and more) was powered by L<sup>A</sup>T<sub>E</sub>X.

## SELECTED AWARDS

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| • Wang Laoji Scholarship, XMU (2/96)                               | Apr. 2021          |
| • Elite Undergraduate Program of Chemistry Scholarship, XMU        | 2017–2021, 4 times |
| • First-class Scholarship of Academic Excellence, XMU. (15/200)    | 2017–2018          |
| • Elite Undergraduate Program of Chemistry, XMU. (29/200 enrolled) | Jan. 2018          |