

ShunPeng Bai · 白顺鹏

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Overview

As an ambitious and team-oriented student majoring in Bioengineering, I possess a keen interest in interdisciplinary fields such as biocatalysis and protein design. Throughout my undergraduate studies, I have engaged extensively in practical work involving molecular cloning, directed evolution, molecular docking, and organic synthesis. Long-term involvement in research groups across two distinct disciplines has fostered my ability to think across disciplinary boundaries.

Education

Huazhong Agricultural University (HZAU)

Sep. 2021 – Jun. 2026

Bachelor of Engineering in Bioengineering

▷ Current GPA: 3.44/4.00

Main Courses

Organic Chemistry, Inorganic Chemistry, Calculus A, Linear Algebra, College Physics, Python Programming Design, Biological Chemistry, Molecular Biology, Microbiology, Genetics

Research Experience

- Green Pesticide Chemistry Laboratory (Prof. Huailong Teng, 滕怀龙教授) Apr. 2022 - Present
- Biocatalysis Laboratory (Prof. Shuke Wu, 吴淑可教授) Jun. 2022 - Present

Publications

- “Synthesis of remote fluoroalkenyl ketones by photo-induced ring-opening addition of cyclic alkoxy radicals to fluorinated alkenes” D Du, H Peng, L He, S Bai, Z Li, H Teng - Organic & Biomolecular Chemistry, 2022

Awards & Honours

- Served as a peer tutor for the chemistry course at Huazhong Agricultural University (2022.2-2022.7). Mar. 2022
- Award for Excellence in the 14th “Huazhong Cup” College Students’ Mathematical Modeling competition. Jun. 2022
- Organic lecture titled “Understanding organic reaction from Markov addition reaction mechanism” for undergraduate student. Oct. 2022
- Scientific research and training project was initiated titled “Chemico-enzyme cascade method for green and efficient preparation of Nepetalactone and its analogues” Apr. 2023
- Third Prize in the 15th “Huazhong Cup” College Students’ Mathematical Modeling competition. May 2023

Skills & Specialty

Language: Chinese (Native), English

Programming: Python, R, Linux, Markdown, LaTeX, Typst, Git

Softwares: Gaussian, Snapgene, Chemdraw, GROMACS, Vina, Multiwfn, MestReNova, Anaconda

Experiment Skill: Enzyme digestion, Gel recovery and purification of DNA, Transformation, DNA extraction, Primer design, PCR, DNA AGE, Recombinant protein expression and purification, Molecular docking, Dynamic simulation, NMR spectrum analysis, Schlenk techniques, Glove box