

JINGYANG ZHANG

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EDUCATION

Wuhan University, Hubei, China

B.Sc. (Hons.) in Chemistry; Training Plan of the National Basic Subject Top-notch Talent 09/2016 – 06/2020

CGPA: 3.83/4.0

- **Relevant Coursework:** Organic Chemistry, Organic Chemistry Seminar, Organic Chemistry Experiment, Comprehensive Organic Chemistry, Chemical Biology
- **Awards:** China National Scholarship, Wuhan University Outstanding Undergraduates, Wuhan University First-class Xing-Gong Scholarship (Top 1), Wuhan University First-class Scholarship, Wuhan University Luojia Excellent Exchange Scholarship, Institute of Physics and Chemistry, Chinese Academy of Sciences Scholarship

University of California, Los Angeles, California, U.S.A.

Visiting Student; Cross-disciplinary Scholars in Science and Technology Program 07/2019 – 09/2019

CGPA: 4.0/4.0

- **Awards:** UCLA-CSST Scholarship

Nanjing University, Jiangsu, China

Visiting Student; Summer School of Theoretical and Computational Chemistry 07/2018

Certificate of Completion

RESEARCH EXPERIENCE

Renata Lab, Department of Chemistry, Scripps Research, Florida Campus

Research Intern; Academic Year Research Internship for Undergraduates 11/2019 – 09/2020

Supervisor: Professor Hans Renata

- **Chemoenzymatic Syntheses of Anthrabenzoquinones**
 - Contributed to synthetic routes design based on enzymatic halogenation and annulation
 - Conducted substrates synthesis and condition optimization
- **Syntheses of β -Branched Aromatic Amino Acids via a Chemoenzymatic DKR Strategy**
 - Optimized condition for substrates synthesis
 - Synthesized keto acids for substrate scope evaluation
- **Chemoenzymatic Syntheses of Highly Oxidized *ent*-Kaurene, *ent*-Atiserene and *ent*-Trachylobane Diterpene Natural Products**
 - Prepared lysates for enzymatic reactions and participated in enzyme purification
 - Synthesized substrates through a chemoenzymatic route

Harran Research Group, College of Chemistry and Biochemistry, University of California, Los Angeles

Visiting Student; Cross-disciplinary Scholars in Science and Technology Program 07/2019 – 09/2019

Supervisor: Professor Patrick G. Harran

- **Total Synthesis of a Marine-derived 1,2,3-Trithocane Natural Product**
 - Contributed to synthetic routes design based on carbene cyclopropanation and internal transalkylation
 - Conducted substrates synthesis and condition optimization for model system research
 - Gave an academic presentation on the peer seminar and made an academic poster

Lab for Practical Natural Products Synthesis, College of Chemistry and Molecular Science, Wuhan University

Undergraduate Researcher; Training Plan of the National Basic Subject Top-notch Talent

07/2017 – 06/2019

Supervisor: Professor Qianghui Zhou

- **One-pot Syntheses of Chiral Isochromans via a Catellani-asymmetric oxa-Michael Cascade Strategy**
 - Project leader, in charge of research proposal, design of experiments, progress control and summary report
 - Developed a new co-catalytic system based on Catellani reaction and cinchona alkaloid-based catalysts for efficient construction of chiral isochroman scaffolds
 - Funded by “National Innovation and Entrepreneurship Training Program for College Students” (\$1400 for two years)
- **Convergent Syntheses of 2,3-Dihydrobenzofurans via a Catellani Strategy**
 - Synthesized epoxy derivatives of natural products for substrate scope evaluation
 - Helped with product separation and purification
- **Epoxides as Alkylating Reagents for the Catellani Reaction**
 - Synthesized epoxy derivatives of natural products for substrate scope evaluation
 - Helped with product separation and purification

OTHER ACADEMIC EXPERIENCE

Thieme Medical Publishers Beijing Office, Beijing, China

Part-time Columnist; Thieme Future Star Plan

05/2020 – Present

- **Selective Interpretation of Papers in SYNFACTS, SYNTHESIS and SYNLETT**
- **Overseas Learning Experience Sharing**

PUBLICATIONS

Chenggui Wu, Hong-Gang Cheng, Ruiming Chen, Han Chen, Ze-Shui Liu, **Jingyang Zhang**, Yuming Zhang, Yuxin Zhu, Zhi Geng, and Qianghui Zhou Convergent Syntheses of 2,3-Dihydrobenzofurans via a Catellani Strategy *Org. Chem. Front.*, **2018**, 5, 2533

Hong-Gang Cheng, Chenggui Wu, Han Chen, Ruiming Chen, Guangyin Qian, Zhi Geng, Qiang Wei, Yuanyuan Xia, **Jingyang Zhang**, Yuming Zhang and Qianghui Zhou Epoxides as Alkylating Reagents for the Catellani Reaction *Angew. Chem. Int. Ed.*, **2018**, 57, 3444

SKILLS

Organic Synthesis: Schlenk line operation; ¹H NMR analysis; **Biocatalysis:** Cell culture, isolation and lysis; **Software:** ChemDraw and Chem3D; MestreNova; **Programming:** Python 3; SQL; Mathematica 11

LICENSES AND CERTIFICATES

IBM Data Science Professional Certificate, approved by International Business Machines Corporation (IBM)

Applied Data Science with Python Specialization, approved by University of Michigan