

# Weiran ZHOU

## PERSONAL DATA

PLACE AND DATE OF BIRTH: Jingzhou in China | May 26, 2000  
ADDRESS: University of Science and Technology of China, Hefei, China  
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## EDUCATION

SEPT. 2017 – *Current* Candidate for Bachelor of Science in PHYSICS,  
**University of Science and Technology of China**  
Major: Condensed matter physics  
OVERALL GPA: 3.86/4.3 | [Detailed List of Exams](#)

## RESEARCH EXPERIENCE

OCTOBER, 2019 – CURRENT	<i>Advisor, Pro J. Zeng</i> HEFEI NATIONAL LABORATORY FOR PHYSICAL SCIENCES AT THE MICROSCALE Synthesized $Ag_3PO_4$ with uniform size and controllable shape. Tested the performance of $Ag_3PO_4$ with different crystal facets (100, 110, 111) in the electrooxidation of propylene, compare the differences in activity and selectivity. Theoretical calculations were performed by MS to simulate the adsorption energy of propylene on different crystal facets of $Ag_3PO_4$ .
JUNE, 2019 – OCTOBER, 2019	<i>Advisor, Pro J. Zeng</i> HEFEI NATIONAL LABORATORY FOR PHYSICAL SCIENCES AT THE MICROSCALE Synthesized AgCl, AgBr, and AgI nanoparticles with similar size and used these nanoparticles for propylene electrooxidation test. Compared the effects of different halogens on the Electro-oxidation performance of propylene.
MARCH, 2019 – JUNE, 2019	<i>Advisor, Pro J. Zeng</i> HEFEI NATIONAL LABORATORY FOR PHYSICAL SCIENCES AT THE MICROSCALE Began research in electroreduction of $CO_2$ . Synthesized In particles and other combined materials used as catalyst for electroreduction of $CO_2$ , using the acid-treated carbon as the capping agent and $InNO_3$ as metal precursor. Learned the use of Gas Chromatograph (GC) and Electrochemical Workstation

## SCHOLARSHIPS AND CERTIFICATES

NOV. 2019 GRE®: 322 (Q:170;V:152); AW: 3.0/6.0  
OCT. 2019 TOEFL® iBT: 101 (R:30;L:26;S:22;W:23)  
SEPT. 2019 Suzhou Nanophysics Institute Scholarship  
SEPT. 2018 Outstanding student scholarship (Grade 2)  
MAY. 2018 Natural Science Electromagnetic Essay Contest (Grade 3)  
SEPT. 2017 Outstanding Freshman Scholarship (Grade 3)

## LANGUAGES

MANDARIN: Mother tongue  
ENGLISH: Fluent

## SKILLS

Competent in C, Python, Mathematica, LaTeX, Excel, Word, PowerPoint

## INTERESTS AND ACTIVITIES

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Technology, Experiment, Programming

Paradoxes in Decision Making, Psychoanalysis, Behavioural Finance

Football, Basketball

## Bachelor of Science in PHYSICS

### Grades of Core Courses

EXAM	GRADE
Theoretical Mechanics	93/100
Electrodynamics	98/100
Optics	98/100
Atomic Physics	87/100
Classical Mechanics	91/100
Equations of Mathematical Physics	98/100