

Xuanyi Chen

PhD Student, College of life sciences

Northwest Agriculture and Forestry University

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Education

PhD in Genetics (Plant Molecular Genetics), Sep 2021 – Sep 2025 (expected)

College of Life Sciences, Northwest A&F University, Yangling, China

BSc in Biotechnology, Sep 2017 – Jun 2021

Innovation Experimental College, Northwest A&F University, Yangling, China

Research Experience

Graduate Research Fellow, Jun 2021 – current

College of Life Sciences, Northwest A&F University | Advisor: Dr. [Cun Wang](#)

- Investigating molecular mechanisms of sulfur deficiency response in *Arabidopsis thaliana* via brassinosteroid signaling and calcium signaling.

Undergraduate Research Assistant – Epigenome Editing, Jun 2020 – Jun 2021

College of Life Sciences, Northwest A&F University | Advisor: Dr. [Israel Ausin](#)

- Designed zinc finger-tagged SWR1 chromatin remodeling complex subunits to profile protein-DNA interactions.

Undergraduate Research Assistant - Virome Analysis, Sep 2018 – Jun 2020

College of Life Sciences, Northwest A&F University | Advisor: Dr. [Weimin Chen](#),

- Analyzed rhizosphere virome of *Robinia pseudoacacia* L. and isolated bacteriophage strains.

Undergraduate Research Assistant - Bioinformatics Training, Sep 2017 – Jun 2018

College of Life Sciences, Northwest A&F University | Advisor: Dr. [Ruolin Yang](#)

- Conducted TCGA data mining and foundational training in bioinformatics.

Funding

Undergraduate Training Program for Innovation and Entrepreneurship, 2019-2021

- Total Award: 3,500 CNY (~\$485)

Publications

*equal contribution

2025

Xuanyi Chen, Zhenghao Yu, Wendi Guo, Yuting Zhou, Cun Wang[#], Tian Wang[#]. (2025). Brassinosteroid signaling promotes sulfate uptake under sulfur deficiency in *Arabidopsis*. **New Phytologist** (Under revision) *Research article*

Yanjun Fang*, Chuanfeng Ju*, Laiba Javed, Chenyu Cao, Yuan Deng, Yaqi Gao, **Xuanyi Chen**, Lv Sun, Yusheng Zhao, Cun Wang[#]. (2025). Plasma membrane-associated calcium signaling modulates zinc homeostasis in *Arabidopsis*. **Science Bulletin** 13: S2095-9273(25)00169-0. *Research article*

2023

Tian Wang, **Xuanyi Chen**, Chuanfeng Ju[#], Cun Wang[#]. (2023). Calcium signaling in plant mineral nutrition: From uptake to transport. **Plant Communications** 4: 100678. (ESI hot paper) *Review*

Min Jia, **Xuanyi Chen**, Xuetao Shi, Yiling Fang, Yangnan Gu[#]. (2023). Nuclear transport receptor KA120 regulates molecular condensation of MAC3 to coordinate plant immune activation. **Cell Host & Microbe** 31:1685-1699.e7. *Research article*

2021

Xuanyi Chen, Shaojun Li[#], Weimin Chen, Quanke Meng. (2021). Characters of Light-sheet Fluorescence Microscope and its Application. **Shengwujishu Jinzhan** 11:126-147. *Review*

Awards and Honors

First-Class Scholarship, 18,000 CNY (~\$2,493)	2023
Second-Class Scholarship, 15,000 CNY (~\$2,077)	2021, 2022, 2024
Advanced undergraduate of Technological Innovation	2021
Third-Class Scholarship, 1,000 CNY (~\$138)	2019
Second-Class Scholarship, 1,500 CNY (~\$207)	2018

Professional Services

Assistant Editor, *Stress Biology*, Jul 2023 – current
Yangling, China