

# Heng Chen

China • Male • 02/13/1997

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## EDUCATION

University of Chinese Academy of Sciences	[MSc • genetics]	2019.09-2022.06
Dissertation: Major gene mapping and analysis for isoflavone accumulation in soybean ( <i>Glycine max</i> L.)		
Supervisor: Prof. Qiuying Zhang		
Nanchang University	[BEng • Bioengineering]	2014.09-2018.06
Thesis: Plant design for annual output of 500 tons of blueberry high calcium yogurt		
Supervisor: Prof. Min Li		
Nanchang University	[BSc • Finance]	2015.09-2018.06
Thesis: The value investment analysis of 2016 gold plate		
Supervisor: Prof. Yongmei Zeng		



## EXPERIENCE

Bio-Protocol	[Academic Editing Intern]	2022.05-Present
<ul style="list-style-type: none"><li>Collected, integrated and processed the submission</li><li>Integrated and reviewed the discussion (Q&amp;A part)</li><li>Wrote and edited academic content for Bio-101</li></ul>		
National Institute of Biological Sciences, Beijing	[Research Assistant (at He lab)]	2022.07-Present
<ul style="list-style-type: none"><li>Processed and analyzed sequencing data</li><li>Carried out research related to DNA methylation and histone modifications</li></ul>		



## HONORS

- Bachelor**  
First class scholarship (2015) • Second class scholarship (2016) • Outstanding youth volunteer award (2016)
- Master**  
Outstanding graduate student award (2021) • Merit student award (2022) • Excellent dissertation award (2022)



## FIELD & INTERESTS

- Field**  
QTL mapping • Transcriptome • DNA methylation • Histone modifications • Isoflavone
- Interests**  
Gene editing • RNA secondary structure • Abiotic stress responses • Photomorphosis • Domestication



## SKILLS

- Physiological Experiments**  
HPLC • GC • Amino-acid Analyzer • Grain Analyzer • et al.
- Molecular Experiments**  
qRT-PCR • Yeast Two-hybrid • Ectopic Expression • CHIP • et al.
- Biostatistics & Bioinformatics**  
SPSS Statistic • R (WGCNA, DEseq2, R/qtl, et al.) • Meta-analysis • et al.



## CERTIFICATES

<b>TOEFL</b>	<b>[English]</b>	2022.06
<ul style="list-style-type: none"> <li>Total: 108 (Speaking: 25   Writing: 24)</li> </ul>		
<b>Certificate of Academic Writing</b>	<b>[Academic Writing]</b>	2022.06
<ul style="list-style-type: none"> <li>Writing in the Sciences (Stanford University • Online)</li> </ul>		
<b>Professional Certificate of Excel and R</b>	<b>[Data Analytics]</b>	Ongoing
<ul style="list-style-type: none"> <li>Data Analytics with Excel and R Professional Certificate (IBM • Online)</li> </ul>		
<b>Certificate of Bioinformatics</b>	<b>[Bioinformatics]</b>	Ongoing
<ul style="list-style-type: none"> <li>Bioinformatics Specialization (UCSD • Online)</li> </ul>		
<b>Certificate of Machine Learning</b>	<b>[Machine Learning]</b>	Ongoing
<ul style="list-style-type: none"> <li>Machine Learning (Stanford University • Online)</li> </ul>		



## PUBLICATIONS

- **Heng Chen**, Xiangwen Pan, Feifei Wang, Changkai Liu, Xue Wang, Yansheng Li, Qiuying Zhang\* (2021). **Molecular Mechanisms of Isoflavone Biosynthesis and Regulation in Soybean: A Review**. Soils and Crops. 10(02): 126-142. (in Chinese with English abstract)
- **Heng Chen**, Xiangwen Pan, Feifei Wang, Changkai Liu, Xue Wang, Yansheng Li, Qiuying Zhang\* (2021). **Novel QTL and Meta-QTL Mapping for Major Quality Traits in Soybean**. Frontiers in Plant Science, 12(2773): 774270.
- **Heng Chen**, Qiuying Zhang\*, Xiaobing Liu (2022). **Nutritional and Health Benefits of Soybean to Human Immunity** (Book Section). Rishi BehlEd. Plants for Immunity (in press)
- **Heng Chen**, Changkai Liu, Yansheng Li, Xue Wang, Xiangwen Pan, Feifei Wang, Qiuying Zhang\* (2022). **Developmental Dynamic Transcriptome and Systematic Analysis Reveal the Major Genes Underlying Isoflavone Accumulation in Soybean**. Journal of Experimental Botany (under review)



## REFERENCES

<b>Zhang, Qiuying</b>	<b>[Professor of IGA, CAS]</b>
<ul style="list-style-type: none"> <li>Email: zhangqiuying@iga.ac.cn</li> </ul>	
<b>Liu, Xiaobing</b>	<b>[Professor of IGA, CAS]</b>
<ul style="list-style-type: none"> <li>Email: liuxb@iga.ac.cn</li> </ul>	
<b>He, Xinjian</b>	<b>[Associate Investigator of NIBS]</b>
<ul style="list-style-type: none"> <li>Email: hexinjian@nibs.ac.cn</li> </ul>	