# Heng Chen

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## 🎓 EDUCATIONS

| | | |
|---|---|---|
| **University of Arizona** | **[PhD** • Plant sciences**]** | 2023-Present • U.S |
| **University of Chinese Academy of Sciences** | **[MSc** • Plant genetics and breeding**]** | 2019-2022 • China |
| **Nanchang University** | **[BEng** • Bioengineering**]** | 2014-2018 • China |
| **Nanchang University** | **[BSc** • Finance**]** | 2015-2018 • China |

## 📝 EDITORIAL EXPERIENCES

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| **Horticulture Research (Online)** | **[Academic Editing Intern]** | 2022.09-Present |

- Wrote news report to introduce the recently published articles
- Organized webinars

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| **Bio-Protocol (Online)** | **[Academic Editing Intern]** | 2022.05-Present |

- Collected, integrated and processed the submission
- Integrated and reviewed the discussion part of published protocol
- Wrote and edited academic content for Bio-101

## 🧪 SKILLS

- **Physiological Experiments**

  HPLC • GC • Amino-acid Analyzer • Grain Analyzer • Photosynthetic Apparatus • et al.

- **Molecular Experiments**

  qRT-PCR • Yeast Two-hybrid • Pull Down • Western Blot • ChIP • RIP • ATAC-seq • Crispr Cas9 • et al.

- **Biostatistics & Bioinformatics**

  R (WGCNA, DEseq2, R/qtl, et al.) • Python (Bioconductor) • SPPS Statistic • Meta-analysis • et al.

## 🪪 CERTIFICATES

| | | |
|---|---|---|
| **Certificate of Academic Writing (with honor)** | **[Academic Writing]** | H6B6A9DJH2YA |

- Writing in the Sciences (Stanford • Online)

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| **Professional Certificate of Excel and R** | **[Data Analysis]** | 5T6KV2SBD6ZA |

- Data Analytics with Excel and R Professional Certificate (IBM • Online)

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| **Certificate of Genomics** | **[Bioinformatics]** | GPTGKLD56BK8 |

- Genomic Data Science Specialization (JHU • Online)

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| **Certificate of Systems Biology** | **[Bioinformatics]** | CKU5T46YMCXW |

- Systems Biology and Biotechnology Specialization (ISMMS • Online)

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| **Certificate of Machine Learning** | **[Machine Learning]** | Ongoing |

- Machine Learning (Stanford • Online)

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|---|---|---|
| **MicroMasters in Statistics and Data Science** | **[Data Science]** | Ongoing |

- Data Analytics and Machine Learning (MIT • Online)

# 📖 SELECTED PUBLICATIONS

- **Heng Chen[#]**, Changkai Liu[#], Yansheng Li, Xue Wang, Xiangwen Pan, Feifei Wang, Qiuying Zhang* (2023). **Developmental Dynamic Transcriptome and Systematic Analysis Reveal the Major Genes Underlying Isoflavone Accumulation in Soybean**. Frontiers in Plant Science, 14: 114349

- **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**, 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**, 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)

# 🔎 REFERENCES

**Rebecca Mosher**                                  [Professor of University of Arizona]

- Email: rmosher@arizona.edu

**Qiuying Zhang**                                   [Professor of IGA, CAS]

- Email: zhangqiuying@iga.ac.cn

**Xiaobing Liu**                                    [Professor of IGA, CAS]

- Email: liuxb@iga.ac.cn