

CURRICULUM VITAE

CHENYONG MIAO

Quantitative Life Sciences Initiative
Center for Plant Science Innovation
Department of Agronomy & Horticulture
University of Nebraska-Lincoln

Office: N231 Beadle Center
Phone: (402) 419-4958
Email: cmiao@huskers.unl.edu
Web: schnablelab.org

Employment

Research Assistant, Department of Agronomy and Horticulture, University of Nebraska-Lincoln 2016-present.

Research Assistant, Genomics and Biotechnology Center, Fujian Agriculture and Forestry University 2013-2016.

Education

Graduate, Agronomy (with James C. Schnable), University of Nebraska-Lincoln, 2016-present.

MS, Bioinformatics (with Haibao Tang), Fujian Agriculture and Forestry University, 2013-2016.

BA, Biotechnology, Henan University of Science and Technology, 2009-2013.

Peer Reviewed Publications

Google Scholar

1. **Chenyong Miao**, Jinliang Yang, James C Schnable (2018) Optimizing the identification of causal variants across varying genetic architectures in crops. *BIORxIV* doi: [10.1101/310391](https://doi.org/10.1101/310391) (Preprint)
2. **Chenyong Miao**, Jingping Fang, Delin Li, ... James C Schnable, Haibao Tang (8 total authors) (2018) Genotype-Corrector: improved genotype calls for genetic mapping in F2 and RIL populations. *SCIENTIFIC REPORTS* (Accepted)
3. Jisen Zhang, Qing Zhang, Leiting Li, ...**Chenyong Miao**, Ray Ming (11 total authors) (2018) Recent Polyploidization Events in Three *Saccharum* Founding Species. *PLANT BIOTECHNOLOGY JOURNAL* doi: [10.1111/pbi.12962](https://doi.org/10.1111/pbi.12962)
4. Jiandong Bao, Meilian Chen, Zhenhui Zhong, ...**Chenyong Miao**, ... Baohua Wang, Zonghua Wang (16 total authors) (2017) PacBio Sequencing Reveals Transposable Elements as a Key Contributor to Genomic Plasticity and Virulence Variation in *Magnaporthe oryzae*. *MOLECULAR PLANT* doi: [10.1016/j.molp.2017.08.008](https://doi.org/10.1016/j.molp.2017.08.008)
5. Jingping Fang, **Chenyong Miao**, Rukai Chen, Ray Ming. (2016) Genome-Wide Comparative Analysis of Microsatellites in Pineapple. *Tropical Plant Biology* doi: [10.1007/s12042-016-9163-6](https://doi.org/10.1007/s12042-016-9163-6)
6. Haibao Tang, Xingtang Zhang, **Chenyong Miao**, Jisen Zhang, Ray Ming, James C Schnable, Patrick S Schnable, Eric Lyons, Jianguo Lu. (2015) ALLMAPS: robust scaffold ordering based on multiple maps. *GENOME BIOLOGY* doi: [10.1186/s13059-014-0573-1](https://doi.org/10.1186/s13059-014-0573-1)
7. Ray Ming, Robert VanBuren, Ching Man Wai, Haibao Tang, ...**Chenyong Miao**, ... Robert E Paull, Qingyi Yu (70 total authors). (2015) The pineapple genome and the evolution of CAM photosynthesis. *NATURE GENETICS* doi: [10.1038/ng.3435](https://doi.org/10.1038/ng.3435)

Presentations

0.1 Oral Presentations

1. **Chenyong Miao**, Jinliang Yang, Schnable JC. (2017) A Bayesian-based GWAS method to identify causal variants in complex polygenic traits. Center for Plant Science Innovation Research Group Meeting. Lincoln, Nebraska.

0.2 Poster Presentations

1. **Chenyong Miao**, Jinliang Yang, Schnable JC. (2017) Comparative GWAS in *Sorghum bicolor* and *Setaria italica*. 59th maize meeting. St. Louis, Missouri.
2. **Chenyong Miao**, Jinliang Yang, Schnable JC. (2017) Comparative GWAS in *Sorghum bicolor* and *Setaria italica*. UNL Spring Research Fair. Lincoln, Nebraska.
3. **Chenyong Miao**, Piyush Pandey, Zhikai Liang, ... Schnable JC. (2018) Analysis of sorghum time-series phenotype data using nonparametric curve fitting and machine learning. Phenome 2018. Tucson, Arizona.
4. **Chenyong Miao**, Jinliang Yang, Schnable JC. (2018) Large-scale simulation studies enabled by HPC reveal the powers of GWAS approaches in dissecting highly polygenic traits in crop species. Supercomputing and Life Sciences Symposium. Lincoln, Nebraska.
5. **Chenyong Miao**, Jinliang Yang, Schnable JC. (2018) Large-scale simulation studies enabled by HPC reveal the powers of GWAS approaches in dissecting highly polygenic traits in crop species. Nebraska Plant Breeding Symposium. Lincoln, Nebraska.