KARL KUNZE

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EDUCATION

2023

Cornell University, Gradudate School

Field of Plant Breeding and Genetics

Olthaca, NY

2017

Cornell University, College of Agriculture and Life

B.S. Plant Sciences Concentration in Plant Breeding and Genetics, minor in Buisness for the Life Sciences

♀ Ithaca, NY

Thesis: A multi-omics study for intra-individual divergence of the distributions between mRNA isoforms in mammals.

RESEARCH EXPERIENCE

2017 2020 Measure components of weed competitive ability in organic naked barley variety trials by using field trait phenotypes and aerial imaging to measure barley vigor and growth over 4 trials and 2 years Genome wide association studies of organic barley diversity panels across 13 location by year field locations throughout the Northern United

Genetic by environmental analysis of winter naked barley variety trials across 8 environments throughout the Northern United States

Evaluation of dormancy and pre-harvest sprouting across a winter malting barley breeding population consisting of 450 lines over two location and two years. A total of 5 timepoint assays were conducted in 2020 and 8 timepoint assays conducted in 2021.



PROFESSIONAL SOCIETIES

Crop Science Society of America(CSSA) student member -present

National Association of Plant Breeders (NAPB) student member -present

New York State Agriculture Society member -present

Cornell Plant Breeding and Genetics Graduate Student Association, Synapsis -present

Alumni of Alpha Gamma Rho, Professional and Social Agricultural Fraternity, Zeta Chapter

CONTACT INFO

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SKILLS

Highly proficient in operating and data collection of a plant breeding program including measurement field phenotypes and integrating genetic data to make selection decision and publish original research

Highly experienced in processing, analysis, organization, and experimental design of field trials of a novel barley breeding program

Field data collection, including agronomic phenotypes, aerial imaging collection, seed germination and malting quality

Highly proficient in data analysis to integrate phenotypic and genotypic data for mapping, genomic prediction and section decisions

Five years of experience managing a novel winter malting breeding program and organic naked barley I his resume for new with state package

Demonstrated collaboration of 5-08. working with multiple research institutions for multi collaborative national grant projects

Highly proficient in R, moderate proficiency in command line and

TEACHING EXPERIENCE Introduction to R Language for Beginners. 2014 Instructor of R and Data Mining Training Courses at SupStat Inc. **♀** Beijing, China **Computational Biology and Bioinformatics.** 2016 **Q** AL, USA Teaching assistant of GBS CB2-201 courses at UAB 2017 SELECTED PUBLICATIONS AND POSTERS Genetic and epigenetic signals are found predictive to the 2014 distribution of intra-individual divergence of alternative splicing. Poster for 2013 International Conference of Genomics **♀**/Qingdao, China Yu L, Chen B, Zhang Z. ESCRT-0 complex modulates Rbf mutant cell survival by 2016 regulating Rhomboid endosomal trafficking and EGFR signaling. J Cell Sci. 2016 May 15;129(10):2075-84. Sheng Z, Yu L, Zhang T, Pei X, Li X, Zhang Z and Du W.