

# “HENRY” YUANSHUO QU

I am a perpetual, quick learner and keen to explore the realm of plant genetics and data science. I am deeply excited about the time we live in and the rate at which data is being generated, analyzed and transformed. I am well versed with a few tools for dealing with data in crop genetics and agronomy, and looking forward to put what I have learned into modern agricultural practices.

## EDUCATION

2014–  
present

### **Rutgers University**

PhD in Plant Breeding and Genetics (GPA: 3.8)  New Brunswick, NJ

Dissertation: Evaluation and Genetic Analysis of Tall Fescue(*Schedonorus arundinaceus*) for Drought Tolerance under Bayesian Framework.


#### **Selected Coursework**

Advanced Plant Physiology; Plant Breeding; Plant Molecular Biology; Advanced Plant Genetics; Plant Disease Clinic; Quantitative Ecology & Evolution

2015–  
2017

### **Rutgers University**

M.S. in Statistics (GPA: 3.9)

 Piscataway, NJ


#### **Selected Coursework**

Biostatistics; Categorical Data Analysis; Applied Multivariate Analysis; Applied Time Series Analysis; Bayesian Data Analysis; Data Mining

2011–  
2013


### **Rutgers University**

B.A. in Plant Science, Honors: *magna cum laude* (GPA: 3.8)

 New Brunswick, NJ

2011–  
2013

### **Shanghai Jiao Tong University**

B.E. in Food Science and Engineering (GPA: 3.3)  Shanghai, CN

## RESEARCH EXPERIENCE

2014–  
2019

### **Graduate Research Assistant**

Rutgers University

 New Brunswick, NJ

- Designed and carried out field trials for evaluation of turfgrasses.
- Developed and implemented various new phenotyping methods for accurate and efficient data collection.
- Introduced and standardized Bayesian approaches for analysis of field trial data.
- Provided statistics consulting to other graduate students and researchers.




PhD student specializing in Bayesian data analysis, population genetics and teaching. On the market for agricultural data science positions.

## CONTACT INFO

 [yuanshuo.qu@rutgers.edu](mailto:yuanshuo.qu@rutgers.edu)

 [linkedin.com/in/henryyqu](https://www.linkedin.com/in/henryyqu)

 +1 732-482-1243

## SKILLS

Expert in R and R Studio.

Experienced in Bayesian data analysis with JAGS and BUGS.

Expert in communicating to scientific and general public.

Some SAS, Python and SQL

Agronomy

Github

2011–  
2013



### Undergraduate Research Assistant

Rutgers University

📍 New Brunswick, NJ

- Assisted professors and graduate students with field experiments.
- Equipment operations and daily care of field studies.



## SELECTED TEACHING EXPERIENCE

2017–  
2019



### Turfgrass ID and Development

Rutgers Professional Golf Turf Management School

📍 New Brunswick, NJ

- Designed course curriculum, lesson plans, and assessment tools for diverse groups of students.
- Chaperoned field trips to encourage hands-on learning.



## SELECTED PRESENTATIONS

Nov 2018



### Application of Bayesian Statistics to Genotype Evaluation and Phenotypic Selection

PowerPoint presentation at 2018 ASA and CSSA Meeting

📍 Baltimore, MD

HY Qu, EJ Green, SA Bonos, WA Meyer

Feb 2017



### Turf Industry in the United States

Invited presentation on agricultural technology achievements transformation and application

📍 Newark, NJ

HY Qu

Dec 2015



### Introduction to Cool-Season Turfgrass Breeding in the United States

Invited presentation at the GCSAA of China Conference 📍 Hainan, CN

HY Qu



## SELECTED PUBLICATIONS

2019



### Phytotoxicity of Methiozolin on Fine Fescue

HortTechnology. 29(3), 265-270. [doi:10.21273/HORTTECH04278-19](https://doi.org/10.21273/HORTTECH04278-19)

HY Qu, RM Daddio, PE McCullough, SA Bonos, WA Meyer.

2018



### Heritability of Simulated Wear and Traffic Tolerance in Three Fine Fescue Species

HortScience. 53(4), 416-420. [doi:/10.21273/HORTSCI12450-17](https://doi.org/10.21273/HORTSCI12450-17)

AL Grimshaw, HY Qu, WA Meyer, E Watkins, SA Bonos.

2016



### Performance of Perennial Ryegrass Cultivars and Selections in New Jersey Turf Trials

2016 Rutgers Turfgrass Proceedings of the GREEN EXPO Turf and Landscape Conference. 101–104.

HY Qu, R Bara, D Smith, SA Bonos, WA Meyer

- 2015 ● **Performance of Perennial Ryegrass Cultivars and Selections in New Jersey Turf Trials**  
2015 Rutgers Turfgrass Proceedings of the GREEN EXPO Turf and Landscape Conference. 125–128.  
HY Qu, R Bara, D Smith, SA Bonos, WA Meyer
- 2014 ● **Performance of Perennial Ryegrass Cultivars and Selections in New Jersey Turf Trials**  
2014 Rutgers Turfgrass Proceedings of the GREEN EXPO Turf and Landscape Conference. 131–134.  
HY Qu, R Bara, D Smith, SA Bonos, WA Meyer



## SELECTED AWARDS

- 2018 ● **Watson Fellowship**  
The Toro Company and the Environmental Institute for Golf (EIFG) of Golf Course Superintendents Association of America(GCSAA).
- 2017 ● **Ralph Geiger Scholarship**  
The Center for Turfgrass Science, Rutgers University
- 2016 ● **Weston Memorial Scholarship**  
The Center for Turfgrass Science, Rutgers University
- 2015 ● **Peter Loft Memorial Scholarship**  
The Center for Turfgrass Science, Rutgers University
- 2014 ● **NJ State Golf Association& Ralph Engel Caddie Scholarship**  
New Jersey State Golf Association
- 2013 ● **Plant Science Excellence Award**  
Department of Plant Biology and Pathology, Rutgers University
- 2011 ● **Academic Excellence Scholarship**  
Department of Agricultural and Biology, Shanghai Jiao Tong University