

## **Pengyin Chen**

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### **EDUCATION**

- Ph.D.** Plant Breeding/Genetics, Virginia Tech, Blacksburg, Virginia, 1989. Advanced Graduate Study, Plant Breeding/Cytogenetics, Iowa State University, Ames, Iowa, 1984-1985.
- M.S.** Plant Breeding/Genetics, Northwestern University of Agriculture, Shaanxi, China, 1978-1982.
- B.S.** Agronomy/Crop Science, Northwestern University of Agriculture, Shaanxi, China, 1976-1978.

### **EMPLOYMENT & RESEARCH EXPERIENCE**

- **Professor**, Dept. of CSES, University of Arkansas, Fayetteville, 2009-present.
- **Associate Professor**, Dept. of CSES, University of Arkansas, Fayetteville, 2005-2008.
- **Assistant Professor**, Dept. of CSES, University of Arkansas, Fayetteville, 2001-2004.
- **Research Scientist**, Dept. of CSES, Virginia Tech, Blacksburg, Virginia, 1991-2001.
- **Hybrid Rice Breeder**, Ring Around Products, Inc., East Bernard, Texas, 1989-1991.

### **MAJOR ACCOMPLISHMENTS**

- Developed and released soybean cultivars Ozark, Osage, Lonoke, Desha, UA4805, UA 4910, UA 5612, UA 5213C, UA 5014C, UA 5814HP, UA 5414RR, and several germplasm lines with high protein, genetic diversity, and drought tolerance.
- Received plant variety protection for six conventional cultivars (Lonoke, Desha, UA4805, Osage, Ozark, and UA 4910). In addition, nine utility patents were filed for three conventional (UA 5612, UA 5213C, and UA 5014C) and six food-grade (UA Kirksey, R08-4004, Delta Soy 947, Delta Soy 590, KK-09, and KK-08) soybean varieties.
- Accomplished agronomic and quality evaluation, exclusive release, and commercialization of private soyfood varieties MFL-551, MFL-552, MFS-551, MFS-553, MFS-591, UA-Kirksey, UA 5814HP, R08-4004, KK-08, KK-09, DeltaSoy 590, and DeltaSoy 947.
- Developed a number of soybean breeding lines with high yield potential and improved quality attributes for the tofu, natto, edemame, low trans-fat oil, and specialty feed markets; served as PI or Co-PI for this research and development effort for the past 24 years.
- Established a series of laboratory procedures for testing specialty soybean qualities, including seed hardness, water absorption capacity, sugar content, nitrogen solubility index, cracked seedcoats, and seed size uniformity.
- Developed molecular markers for disease resistance genes and QTL for seed quality

traits.

- Established a laboratory tissue culture system for aseptic maintenance of soybean viruses.
- Identified and characterized twelve genes for disease resistance in soybean.
- Authored/co-authored 171 refereed journal publications, 7 book chapters, and more than 180 abstracts/presentations.
- Received grants and contracts funding (total over \$9.5 million for my share) from United Soybean Board, USDA-NRI, USDA-ARS, United Soybean Board, Arkansas Soybean Promotion Board, Blue Horizon, Inc., Arkansas Bioscience Institute, American Vegetable Soybean and Edamame, Inc., Iowa Soybean Association; North Central Soybean Research Program, Japanese American Soybeans, LLC and Auvergne Grain.
- Graduated 12 Ph.D. and 16 M.S. students, all with professional jobs; trained 11 postdoctoral scientists and more than 20 visiting scholar/interns; and advised and trained more than 30 undergraduate students.
- Taught four courses: Soybean Production, Plant Breeding, Special Problems in Applied Plant Breeding, and Special Problems in Plant Genetics. Guest lectured for seven courses: Introduction to Plant Science, Crop Science, Issues on Global Agriculture, Introduction to Crop, Soil, and Environmental Sciences, Advanced Plant Breeding, Introduction to Plant Pathology, Leadership in Honors Program.

## **PROFESSIONAL SERVICE**

- Associate Editor for Crop Science Journal (2004-06)
- Associate Editor for the Journal of New Seeds (2008-13)
- Associate Editor for the Journal of Plant Registration (2013-16)
- National Soybean Variety Review Board (2002-07)
- American Soybean Genetic Committee (2002-2012)
- American Society of Agronomy (1984-present)
- Crop Science Society of America (1984-present)
- American Phytopathological Society (1988-present)
- American Soybean Association (2001-present)

## **AWARDS AND HONORS**

- Fellow of Crop Science Society of America, 2014
- Spitze Land Grant University Faculty Award for Excellence, University of Arkansas, 2014
- Fellow of American Society of Agronomy, 2013
- John W. White Research Award, University of Arkansas, 2012
- Gamma Sigma Delta Research Award of Merit, University of Arkansas, 2010
- Honorary Scientist, Rural Development Administration of South Korea, 2003-2007
- Sigma Xi Research Award, Virginia Tech, 1989
- Noted by students and acknowledged by the Vice Chancellor for Student Affairs in 2007 as a faculty member who “most influenced students’ college career and improved their university experiences and professional careers”