

Yaling Qian

CURRICULUM VITAE

Associate Professor
Department of Horticulture and Landscape Architecture
Colorado State University

Education

1996. Ph.D., Horticulture (Turfgrass Science) Kansas State University
1988. M.S., Agronomy (Botany) Nanjing Agricultural University
1981. B.S., Biology (Plant Biology) Hangzhou Teacher's College

Professional Experiences

2004 – to date: Associate Professor,
Department of Horticulture and Landscape Architecture,
Colorado State University.
1998 –2004. Assistant Professor, Department of Horticulture and Landscape
Architecture, Colorado State University.
1996 - 1997. Assistant Research Scientist, Dallas Extension and Research
Center, Texas A&M University.
1987 - 1992 and 1981 - 1985. Instructor, Hangzhou Teacher's College, PRC.

Course Taught

Colorado State Univ. Turfgrass Science (H441- 3 credits every fall)
Plant-Water Relations (H571 – 3 credits every other spring)
Turfgrass Management Internship (H487)
Independent Study In Turfgrass Science (H495)

Students Advising

As the major advisor for ~25 undergraduate students every year;
3 Ph.D. and 1 M.S. students graduated and 1 underway;
Serve as a graduate student committee member for 14 graduate students.

Grants and Contracts

Total grants and contracts received during the past 7 years: **\$ 879,578**

Major sponsors:

USGA- United States Golf Association
Denver Water, City of Westminster, and Plum Creek Water Authorities
BOR – Bureau of reclamation

CWRRI – Colorado Water Resource Research Institute
USGS – U.S. Geological Survey
RMTRF – Rocky Mountain Regional Turfgrass Research Foundation
ITPF – International Turf Producers Foundation
AES – Agricultural experimental station
NOER –NOER foundation
WERF – Water Environment Research Foundation
Syngenta Crop Protection

Memberships in Professional Societies

American Society for Horticultural Science (ASHS) 1998-2003
American Society of Agronomy (ASA) 1993-2003
Crop Science Society of America (CSSA) 1993-2003
Soil Science Society of America (SSSA) 1993-2003
Golf Course Superintendents Association of America (GCSAA) 1998-2003
International Turfgrass Society (ITS) 1998-2003

Honors and Awards

1995, Watson Fellowship, The Golf Course Superintendents Association of American, San Francisco.
1992, Outstanding Teaching Award, Hangzhou Teacher's College, China.

Presentations

Presented over 50 invited or volunteered oral and post presentations in professional conferences, industry associations, academic universities, and institutes.

Selected Publications:

- Y.L. Qian** and J.M. Fu. 2005. Response of creeping bentgrass to salinity and mowing management: carbohydrate availability and ion accumulation. HortScience 40: (In press).
- Y.L. Qian**, J.M. Fu, J. Klett, and S.E. Newman. 2005. Effects of long-term recycled wastewater irrigation on visual quality and ion content of ponderosa pine. J. of Environmental Horticulture (In press)
- Lang, J. N. Tisserat, A. Koski, D. Christensen, and **Y. Qian**. 2005. First report of brown stripe of saltgrass caused by bipolaris heveae in Colorado. Plant Disease 89:913.
- Suplick-Plonese M.R. and **Y.L. Qian**. 2005. Evapotranspiration, rooting characteristics, and dehydration avoidance: comparisons between hybrid bluegrass and Kentucky bluegrass. Int. Turfgrass Research Journal 10:891-898.
- Y.L. Qian** and B. Mecham. 2005. Long Term Effects of Recycled Wastewater Irrigation on Soil Chemical Properties on Golf Course Fairways. Agron. J. 97:717-721.

- Fu, JM, AJ Koski, and **YL Qian**. 2005. Responses of creeping bentgrass to salinity and mowing management: growth and turf quality. *HortScience* 40:463-467.
- Al-Sheikh, A., J.A. Delgado, K. Barbarick, R. Sparks, M. Dillon, **Y.L. Qian** and G. Cardon. 2005. Effects of potato-grain rotations on soil erosion, carbon dynamics and properties of rangeland sandy soils. *Soil & Tillage Research* 81:227-238.
- Alshammery, S., **Y.L. Qian**, and S.J. Wallner. 2004. Growth response of four turfgrasses to salinity. *Agricultural Water Management* 66: 97-111.
- Qian Y.L.**, R. F. Follett, S. Wilhelm, A.J. Koski, and M.A. Shahba. 2004. Carbon isotope discrimination of three Kentucky bluegrass cultivars with contrasting salinity tolerance. *Agron. J.* 96:571-575.
- Shahba, M. A., **Y.L. Qian**, H.G. Hughes, A.J. Koski and D. Christensen. 2003. Relationship of carbohydrates and cold hardiness in six saltgrass accessions. *Crop Sci.* 43:2148-2153.
- Shahba, M. A., **Y.L. Qian**, H.G. Hughes, D. Christensen, and Tony Koski. 2003. Cold hardiness of saltgrass accessions. *Crop Sci.* 43: 2142-2147.
- Qian, Y.L.**, W. Bandaranayake, W.J. Parton, B. Mecham, A.M. Harivandi, and A.R. Mosier. 2003. Long-term effects of clipping and nitrogen management in turfgrass on soil carbon and nitrogen dynamics: the CENTURY model simulation. *J. Environ. Qual.* 32:1694-1700.
- Bandaranayake, W., **Y.L. Qian**, W.J. Parton, D. S. Ojima, and R.F. Follett. 2003. Estimation of soil carbon sequestration in turfgrass systems using the CENTURY model. *Agron. J.* 95:558-563.
- Tan, Z.G. and **Y.L. Qian**. 2003. Effects of light intensity on gibberellic acid content in Kentucky bluegrass. *HortScience* 38:113-116.
- Suplick-Ploense, M.R., **Y.L. Qian**, J.C. Read. 2002. Salinity tolerance of Texas bluegrass, Kentucky bluegrass, and their hybrids. *Crop Sci.* 42: 2025-2030.
- Ball, S., Y.L. Qian, and C. Stushnoff. 2002. Soluble carbohydrates in two buffalograss cultivars with contrasting freezing tolerance. *J. Am. Soc. Hort. Sci.* 127:45-49.
- Qian, Y.L. and R.F. Follett. 2002. Assessing soil carbon sequestration in turfgrass systems using long-term soil testing data. *Agron. J.* 94:930-935.
- Qian, Y.L., S.J. Wilhelm, and K.B. Marcum. 2001. Comparative responses of two Kentucky bluegrass cultivars to salinity stress. *Crop Science* 41:1895-1900.
- Qian, Y.L. and M. Suplick. 2001. Interactive effect of salinity and temperature on Kentucky bluegrass and tall fescue germination. *International Turfgrass Society Research Journal* 9:334-339.
- Qian, Y.L., S. Ball, Z. Tan, A.J. Koski, and S.J. Wilhelm. 2001. Freezing tolerance of six cultivars of buffalograss. *Crop Sci.* 41:1174-1178.
- Qian, Y.L., A.J. Koski, and R. Welton. 2001. Amending isolite and zeolite in sand under saline conditions: leachate composition and salt deposition. *HortScience* 36:717-720.
- Qian, Y.L., M.C. Engelke, M.J.V. Foster. 2000. Salinity effects on zoysiagrass cultivars and experimental lines. *Crop Sci.* 40:488-492.

- Qian, Y. L. and M.C. Engelke. 1999. Diamond zoysiagrass as affected by light intensity. *Journal of Turfgrass Management*. 3: 1-13.
- Qian, Y.L. and M.C. Engelke. 1999. Performance of five turfgrasses under linear irrigation. *HortScience*. 34: 893-896.
- Qian, Y.L. and M.C. Engelke. 1999. Influence of trinexapac-ethyl on Diamond zoysiagrass in a shade environment. *Crop Sci*. 39: 202-208.
- Qian, Y.L., M.C. Engelke, M.J.V. Foster, and S. Reynolds. 1998. Trinexapac-ethyl restricts shoot growth and improves quality of 'Diamond' zoysiagrass under shade. *HortScience*. 33:1019-1022.
- Fry, J., S. Wiest, Y. Qian, and W. Upham. 1997 . Evaluation of empirical models for estimating turfgrass water use. *Intl. Turfgrass Research Journal* 8:1268-1273.
- Qian, Y.L., J. Fry, and W. Upham. 1997. Rooting and drought avoidance of warm-season turfgrasses and tall fescue in Kansas. *Crop Sci*. 37:699-704.
- Qian, Y.L. and J.D. Fry. 1997. Water relations and drought tolerance of four turfgrasses. *J. Am. Soc. Hort. Sci*. 122:129-133.
- Qian, Y. L., J. Fry, S. Wiest and W. Upham. 1996. Estimation of turfgrass evapotranspiration using atmometers and an empirical model. *Crop Sci*. 36:699-674.
- Qian, Y.L. and J.D. Fry. 1996. Zoysiagrass rooting and plant water status as affected by irrigation frequency. *HortScience*. 31:234-237.