

**STEVE HAGUE**  
Professor, Cotton Breeder  
Department of Soil and Crop Sciences, Texas A&M University

**Education**

2000	Ph.D.	Plant Breeding, Texas A&M University
1997	M.S.	Agronomy, Texas Tech University
1994	B.S.	Agricultural Sciences, Texas A&M University – Commerce

**Positions and Employment**

2006 - present	Assistant/Associate/ Full Professor, Cotton Breeder, Department of Soil and Crop Sciences, Texas A&M University
2002-2006	Cotton Trait Introgression Breeder/Station Manager, Bayer CropScience
2000-2002	Assistant Professor, Cotton and Soybean Research Agronomist, Northeast Research Station, Louisiana State University

**Program Overview**

My research emphasis is to create cotton cultivars and germplasm with high-yield potential, excellent water use efficiency, and resistance to insects and pests endemic to Texas. I make active use of a wide array of cotton germplasm including exotic upland and interspecific lines. My cotton-testing region includes Central and South Texas as well as the Rolling Plains. I have also begun developing cotton germplasm specifically for organic cotton production. My teaching efforts include mentoring graduate students and teaching conventional and high-impact learning experience courses for undergraduate students. My current teaching portfolio includes 'Plant Breeding and Genetics' (SCSC 304); 'Professional Development in Agronomy' (SCSC 305); and 'Organic Crop Production' (SCSC 489). I also lead study abroad programs (Mexico and Azerbaijan), advise students with internships and undergraduate research projects.

**Significant 5-Year Accomplishments (2014-2019)**

Research: I have co-released 18 germplasm lines and one cultivar with several more poised for release in 2019. My program has identified sources of host plant resistance for cotton fleahoppers; several promising lines with resistance to fusarium (race 4); developed protocols to assess water use efficiency; and explored the relationship among yield components and fiber traits. I manage a cotton improvement program in Azerbaijan in collaboration with AgroCenter. Involved with the Yucatan/Texas A&M University initiative for agrobiodiversity. I also participate in the National Cotton Variety Testing program and Regional Breeder Testing Network for cotton.

Teaching: I teach SCSC 304 (Plant Breeding and Genetics) in a conventional, honors, and distance delivered format; SCSC 489 (Organic Crop Production); SCSC 489 (Agriculture in Azerbaijan – Study Abroad); SCSC 305 (Professional Development in Agronomy); SCSC 421 (International Agricultural Research Centers in Mexico – Study Abroad); SCSC 484 (Internship); SCSC 485 (Directed Studies in Cuba); SCSC 491 (Undergraduate Research). Borlaug Youth Institute of Texas Workshop presenter. During this period, I have chair/co-chaired 15 M.S. students and 6 Ph.D. students, which includes several in our Distance Plant Breeding Degree program. I have also served on 10 M.S. and 6 Ph.D. student committees during the last five years.

Service: Texas A&M Faculty Senate; Texas A&M AgriLife Advanced Leadership Cohort V; Texas A&M University Honors Council for academic integrity; Texas A&M University Undergraduate Honors Council; Texas A&M University Graduate Diversity Fellowship Review Committee; Texas A&M University – Dept. Soil and Crop Sciences – Faculty Advisory Committee (chair 2018-19); Texas A&M University – Dept. Soil and Crop Sciences – Farm Services Committee; Texas A&M University – Dept. Soil and Crop Sciences – Scholarship Committee; Crop Science Society of America – Teaching, Golden Opportunity, and K-12 Outreach committees.

## Publications

### Ten most recent (49 total)

1. Kelly, Carol M., Juliana Osorio-Marin, Neha Kothari, Steve Hague, and Jane K. Dever. 2019. Genetic improvement in cotton fiber elongation can impact yarn quality. *Industrial crops and products* 129: 1-9.
2. Hague, Steve S. "Case study: Transgenic crop controversy in Costa Rica." *A Collection of Case Studies casestudies* (2018): 95-99.
3. Smith, W., E. Hequet, S. Hague, and D. Jones. 2018. Elite Fiber Quality Germplasm Lines of Upland Cotton: TAM 11K-13 ELSU, TAM 11T-08 ELSU-ESU, and TAM 11L-24 LSU. *J. Plant Registrations* 12(1):112-117.
4. C Wayne Smith, EF Hequet, S Hague, and D Jones. 2017. Registration of 'Tamcot G11' Upland Cotton Cultivar. *J. Plant Reg* 12(1) 7-12.
5. C Wayne Smith, EF Hequet, S Hague, and D Jones. 2017. Elite Fiber Quality Germplasm Lines of Upland Cotton: TAM 11K-13 ELSU, TAM 11T-08 ELSU-ESU, and TAM 11L-24 LSU. *J. Plant Reg.* 12(1): 112-117.
6. Bhangu, D., C.W. Smith, and S. Hague. Performance of the Extra Long Staple Upland, Long Staple Upland, and Extra Strength Upland Fiber Traits in South Texas. *Journal of Cotton Science.* 21:190-198.
7. Kothari, N., S. Hague, L. Hinze, J. Dever. 2017. Boll sampling protocols and their impact on measurements of cotton fiber quality. *J. Ind. Crops and Products* 109: 248-254.
8. Lori L Hinze, Amanda M Hulse-Kemp, Iain W Wilson, Qian-Hao Zhu, Danny J Llewellyn, Jen M Taylor, Andrew Spriggs, David D Fang, Mauricio Ulloa, John J Burke, Marc Giband, Jean-Marc Lacape, Allen Van Deynze, Joshua A Udall, Jodi A Scheffler, Steve Hague, Jonathan F Wendel, Alan E Pepper, James Frelichowski, Cindy T Lawley, Don C Jones, Richard G Percy, David M Stelly. Diversity analysis of cotton (*Gossypium hirsutum* L.) germplasm using the CottonSNP63K Array. *BMC Plant Biology*, 2017
9. Hugie, K.L, D.D. Fang, C.W. Smith, P. Li, L.L. Hinze, S.S. Hague, D.C. Jones. 2016. Utility assessment of published microsatellite markers for fiber length and bundle strength QTL in a cotton breeding program. *Crop Sci* 56 (6), 2983-2995.
10. McCloud L. A., Knutson A., Campos-Figueroa M., Smith C. W., and Hague S. 2015. Evaluating Pilose, a cultigen of *Gossypium hirsutum*, as a source of resistance to cotton fleahopper (Hemiptera: Miridae). *J. Econ. Entomol.* 108: 2048–2054.

### Awards and Honors

- 2018, Vice-Chancellor's Award for Teaching, College of Agriculture, Texas A&M University
- 2018, Teaching Award, Southern Branch- American Society of Agronomy
- 2016, Teaching Award, Crop Science Society of America
- 2011, Teaching Award, Department of Soil and Crop Sciences, Texas A&M University
- 2005, 'You Can't Pick Better', Bayer Crop Science