

CURRICULUM VITAE

Name: Shad D. Nelson, Ph.D. C.F. Dick Schendel Endowed Professor in Soil Science	Position: Dean, Dick and Mary Lewis Kleberg College of Agriculture and Natural Resources	Contact Information: Shad.Nelson@tamuk.edu
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EDUCATION

Institution and Location	Degree	Year	Major Field	Area of Training Specialty
Univ. of Calif., Riverside	Ph.D.	1998	Soil Science	Ag Chemical Fate & Transport
Brigham Young Univ., UT	M.S.	1995	Agronomy	Soil Microbiology & N Cycling
Brigham Young Univ., UT	B.S.	1993	Horticulture Sci.	Plant Abiotic Stress Management

PROFESSIONAL EXPERIENCE

2022-present	C.F. Dick Schendel Family Endowed Professor in Soil Sciences
2017-present	Dean, Dick & Mary Lewis Kleberg College of Agriculture & Natural Resources, TAMUK
2016-2017	Interim-Dean, D&ML Kleberg College of Ag, Natural Resources & Human Sci., Kingsville, TX
2012-present	Professor, Soil, Plant & Environmental Sci., Texas A&M University-Kingsville, Kingsville, TX
2006-2016	Chair, Dept. of Agriculture, Agribusiness & Environmental Sciences, TAMU-Kingsville
2006-2012	Associate Professor, Texas A&M University-Kingsville, Kingsville, TX (Tenured Aug 2007)
2005-2006	Interim Chair, Dept. of Agronomy & Resource Sci., Texas A&M University-Kingsville
2001-2006	Assistant Professor, Agronomy and Horticultural Sciences, Texas A&M University-Kingsville
2000-2001	Post-Doctoral Research Associate, USDA-ARS Water Management Research Lab, Fresno, CA
1998-2000	Post-Doc Research Assistant, USDA-ARS, Crop Genetic & Environ. Res. Lab, Gainesville, FL
1995-1998	Doctoral Graduate Research & Teaching Assistant, University of California, Riverside, California
1991-1995	Undergrad/Graduate Research & Teaching Assistant, Brigham Young University, Provo, Utah
1991	Internship, Urban Forestry, Salt Lake City Parks & Recreation, Salt Lake City, Utah

HONORS/AWARDS

- **Friend of Conservation** 1st place award. Soil and Water Conservation Districts of Texas, Region III. 2018 Texas Conservation Awards Program, May 2018.
- **Distinguished Researcher Award**, TAMUK Javelina Alumni Association, Oct 2017.
- **Texas Commission on Environmental Quality (TCEQ) Environmental Excellence Award: Agriculture** May 2017. TexasAWE Citrus Water Conservation, Texas Project for Ag Water Efficiency (TexasAWE).
- **Friend of Conservation Award**, Kleberg-Kenedy Soil & Water Conservation District, Feb 2017.
- **Blue Legacy Award in Agriculture**, Texas State Water Conservation Advisory Council, March 2015.
- **Senior Research Award**, Dick & Mary Lewis Kleberg College of Ag, Nat. Res. & Human Sci., April 2014.
- **J. Creighton Miller, Jr. Distinguished Educator Award**, South. Region Amer. Soc. of Hort. Sci., Feb 2014.
- **Texas Commission on Environmental Quality (TCEQ) Environmental Excellence Award** May 2011. Agriculture, Water Conservation, Ag Demonstration Initiative Project with Harlingen Irrigation District.
- **Senior Research Award**, Dick & Mary Lewis Kleberg College of Agriculture, April 2009.
- **TCEQ Environmental Excellence Award**, Agriculture, Rio Grande Basin Initiative, April 2008.
- **Presidential Excellence Award in Teaching**, College of Agriculture, TAMUK. April 2004.
- **Certificates of Recognition**, USDA-ARS Water Management Research Lab, Fresno, CA. 2000 & 2001.
- **Outstanding Student Award**, American Society of Agronomy, Ag/Hort Dept., BYU. 1992-93.
- **Eagle Scout Award**, Boy Scouts of America, 1983.

TEACHING EXPERIENCE*Courses Taught: Soil & Environmental Sciences*

- Graduate Soils-PLSS 5390: Soil Nutrient Cycling and Management. Spring 2022. SLO goal: $\geq 80\%$
- ***Principles of Soil Science & Lab-PLSS 3410: Soil development & management. Fall 2022.*** SLO goal: $\geq 70\%$
- Soil & Water Conservation/Management-PLSS 3321: Methods of reclamation, conservation and management.
- Environmental Sciences & Lab: Undergraduate study of environmental disturbances on soil, plant, and water.
- Research Experimentation/Lab-PLSS 4390: Basics of soil, water, and plant sampling for research analysis.
- Soil Microbiology-Graduate Lab: M.S.-Techniques of enumeration, sampling, microbial analysis.
- Soil Chemistry-PLSS 6326: Advanced study of the chemistry of soils, properties, & processes.
- Art of Scientific Presentations-PLSS 6390: Ph.D. level introduction of enhanced scientific presentations.
- Graduate Seminar-PLSS 6185: Venue for M.S. & Ph.D. students to present research results in seminar setting.

Courses Taught: Plant & Horticultural Sciences

- General Plant Science & Lab-PLSS 1407: Fundamentals of growth, development, and cultivation of plants.
- Plant Propagation & Lab--PLSS 4332. Principles and practices of plant propagation techniques.
- Greenhouse Crop Production & Lab -PLSS 4331. Methods of greenhouse maintenance and design.
- Fruit and Vegetable Production & Lab-PLSS 3344: Study of production principles for various crops.
- Landscape Design & Lab -PLSS 3319: Fundamentals of landscape designs of home and urban environs.
- Landscape Maintenance & Construction & Lab -PLSS 4313. Practical practices utilized in urban landscapes.
- Turf Management-PLSS 4390: Fundamentals of turf grass establishment, growth, and management.
- Crop Physiology-PLSS 3381: Function of plant organs, cell growth, and environmental influences.
- Weed Control-PLSS 3334: Growth, economic importance, distribution, and control methods of weeds.
- Internship-PLSS 3995: Real-life application of industry, science, research; writing intensive.
- Senior Seminar-AGRI 4171: Student opportunities for public speaking and professional presentations.

GRANTS Received – TAMU-Kingsville Funded Grants*

Vitae: Shad D. Nelson

>\$19 million total grant funds awarded to Dr. Nelson as P.I./Co-P.I. at TAMUK

	<u>Total Funds</u>	<u>as P.I.</u>	<u>as Co-P.I</u>
2002	\$ 620,904	\$620,904	\$
2003	\$ 16,000	\$ 16,000	\$
2004	\$ 313,200	\$313,200	\$
2005	\$ 314,071	\$ 16,000	\$298,071
2006	\$ 313,000	\$313,000	\$
2007	\$ 46,650	\$ 15,750	\$ 30,900
2008	\$ 67,000	\$ 37,000	\$ 30,000
2009	\$ 350,000	\$330,000	\$ 20,000
2010	\$ 347,469	\$ 49,969	\$297,500
2011	\$1,029,500	\$989,500	\$ 40,000
2012	\$1,240,442	\$1,000,000	\$240,442
2013	\$1,546,552	\$1,025,000	\$521,552
2014	\$1,176,500	\$999,500	\$182,000
2015	\$1,016,000	\$640,000	\$376,000
2016	\$1,116,042	\$500,000	\$616,042
2017	\$1,378,227	\$500,000	\$878,277
2018	\$1,086,250	\$500,000	\$586,250
2019	\$1,756,250	\$500,000	\$1,256,250
2020	\$1,275,000		\$1,275,000
2021	\$2,325,417		\$2,325,417
2022-23	\$2,150,000		\$2,150,000

PROFESSIONAL AFFILIATION

Soil Science Society of America (30yrs)	American Society of Horticultural Science (15yrs)
American Society of Agronomy (30yrs)	International Society of Horticultural Science
Crop Science Society of America (15yrs)	Southern Region Amer. Soc. of Hort. Science
Subtropical Agriculture & Environments Society (15+yrs)	Phi Kappa Phi Honor Society

JOURNAL PUBLICATIONS: (Peer Reviewed)*Vitae: Shad D. Nelson***>50 total peer-reviewed journal publication with Dr. Nelson as Author/Co-author**

1. Setamou, M., O.J. Alabi, C.R. Simpson, S.D. Nelson, and J.L. Jifon. 202X. Novel citrus planting design: raised beds with plastic mesh groundcover improve citrus tree growth and productivity. (In review: *Scientia Horticulturae*).
2. Simpson, C.R., J. Gonzales III, J. Enciso, **S.D. Nelson**, and M. Setamou. 2020. Root distribution and seasonal fluctuations under different grove floor management systems in citrus. *Scientia Horticulturae*. Vol. 272 Article 109364. <https://doi.org/10.1016/j.scienta.2020.109364>
3. Neelipally, R.T.K., A. Anorou, and **S.D. Nelson**. 2020. Effect of Co-inoculation of Bradyrhizobium and Trichoderma on Growth, Development, and Yield of *Arachis hypogaea* L. (Peanut). *Agronomy*. Vol. 10(9),1415. <https://doi.org/10.3390/agronomy10091415>
4. Semida, W.M., H.R. Hussein, M. Setamou, C.R. Simpson, T.A. Abd El-Mageed, M.M. Rady, and **S.D. Nelson**. 2019. Biochar implications for sustainable agriculture and environment: A review. *South African Journal of Botany (SAJB)*. 127:333-347.
5. Simpson, C.R., J.C. Melgar, **S.D. Nelson**, and M. Setamou. 2019. Growth and yield responses under different grove floor management strategies for water conservation in young grapefruit trees. *Scientia Horticulturae*. Vol. 256 Article 108567. <https://doi.org/10.1016/j.scienta.2019.108567>
6. Fuentes, C., J. Enciso, **S.D. Nelson**, J. Anciso, M. Setamou, and S. Elsayed-Farag, 2018. Yield production and water use efficiency under furrow and drip irrigation systems for watermelon in south Texas. *Subtropical Ag & Environ Journal*. 69:1-7.

POPULAR PRESS ARTICLES

7. **Nelson, S.D.**, R.L. Stanko, and M.C. Donato-Molina. Jan. 2021. START NOW to reap the benefits later. *Futurm Sci-Comm publishing*. Pg 1-6.

AGRICULTURAL EXTENSION PUBLICATIONS**>10+ publications***Vitae: Shad D. Nelson***PROCEEDING PUBLICATIONS: (Peer Reviewed) >10+ publications****Publications in Progress**

1. Camacho, A.M., H.L. Perotto-Baldivieso, A.L. Montemayor, W.A. Gless, J. Exum, T. Yamashita, A. Foley, R. DeYoung, E.P. Tanner, and S.D. Nelson. (2022) Planning aerial wildlife surveys with UAVs. What is the big picture? *Perspectives in Ecology and Conservation*.
2. Camacho, A.M., H.L. Perotto-Baldivieso, J.A. Ortega-S., E.P. Tanner, A.D. Falk, A.L. Montemayor, W.A. Gless, D. Daniels, T. Kimmet, and S.D. Nelson. (2022) Spectral signatures for ecology: 50 years after Hoffer and Johannsen. *J. Remote Sensing*.
3. Camacho, A.M., H.L. Perotto-Baldivieso, J.A. Ortega-S., E.P. Tanner, A.D. Falk, S.D. Nelson, A.L. Montemayor, W.A. Gless, M.T. Page, M.A. Ramirez, D. Daniels, and T. Kimmet. (2022) Developing Spectral signatures for native grasses using UAV multispectral sensors. *J. Remote Sensing*.

DISSERTATION/THESIS*Vitae: Shad D. Nelson*

- **Ph.D. Dissertation:** Nelson, S.D. 1998. Complexation of Napropamide with Dissolved Organic Matter from a Sewage Sludge Amended Soil. Dept. of Soil & Environ. Sci., Univ. of California, Riverside.
- **M.S. Thesis:** Nelson, S.D. 1995. The Effects of Soil Physical Properties and Irrigation Method on Denitrification. Department of Agronomy and Horticulture, Brigham Young University, Provo, UT.