

JESSICA GWYN DAVIS

Head, Department of Horticulture & Landscape Architecture
Colorado State University

Fort Collins, CO 80523-1173
(970)491-1525

jessica.davis@colostate.edu

Academic Credentials

Cornell University	Agronomy and International Agriculture	B.S., 1983
Texas Tech University	Soil Science	M.S., 1984
Thesis Title: Intercropping of sorghum and cowpea under dryland conditions: Effect on water use, root distribution, and plant growth.		
Texas A&M University	Soil Science	Ph.D., 1989
Dissertation Title: Influence of spatial variability of soil physical and chemical properties on the rooting patterns of pearl millet and sorghum.		
Boston University	Entrepreneurship	Graduate Certificate, 2013

Academic Positions

Instructor, Texas A&M University, 1985-1986
Junior Scientist, Tropical Soils Collaborative Research Support Program, U.S. Agency for International Development, Niger, West Africa, 1986-1987
Assistant Professor, Department of Crop & Soil Sciences, Coastal Plain Experiment Station, University of Georgia, 1989-1995
Associate Professor and Extension Specialist, Department of Soil & Crop Sciences, Colorado State University, 1995-2001
Director, Institute for Livestock and the Environment, Colorado State University, 2008-2012
Deputy Director, USAID Collaborative Research Support Program on Adapting Livestock Systems to Climate Change, Colorado State University, 2010-2011
Affiliate Faculty, School of Plant Science and Horticulture, Hawassa University, Ethiopia, 2012-present
Professor and Extension Specialist, Department of Soil & Crop Sciences, Colorado State University, 2001-2016
Department Head, Department of Horticulture & Landscape Architecture, Colorado State University, 2016-present

Publications and Presentations

Journal Articles: 64	Book Chapters: 9	Proceedings: 70
Bulletins: 21	Extension Factsheets: 47	Newsletter Articles: 104
Abstracts: 181	Popular Articles: 8	Reports: 125+
Invited Presentations: 80+	Extension Presentations: 400+	

Grants

Received as PI: \$8,562,535
Received as co-PI: \$17,986,169
Total: \$26,548,704

Extension and Outreach Experience

1995-present, Extension Soil Specialist at Colorado State University.

1997-2001, Departmental Extension Coordinator, Soil & Crop Sciences Department.

1998-2000, Specialist representative to the Colorado Extension Director's Advisory Council.

1999, President, Colorado Extension Specialists Association.

Extension and Outreach Awards

1996, Educational Materials Awards Program, American Society of Agronomy, Division A-4 Extension Agronomy--display category.

1998, Educational Materials Awards Program, American Society of Agronomy, Division A-4 Extension Agronomy--newsletter category.

2000, F.A. Anderson Distinguished Service Award, Colorado State University Cooperative Extension.

2004, Agronomic Extension Education Award, American Society of Agronomy.

2007, Educational Materials Awards Program, American Society of Agronomy, Division A-4 Extension Agronomy--poster category.

2009, Educational Materials Awards Program, American Society of Agronomy, Division A-4 Extension Agronomy--video category.

2012, Educational Materials Awards Program, American Society of Agronomy. Category: Video.

2012, Educational Materials Awards Program, American Society of Agronomy. Category: Publication over 16 pages.

2012, Team Award, Colorado State University Cooperative Extension.

Teaching Experience

I developed and taught the following courses at CSU (*team taught):

ANEQ300-O (1 credit) Nutrient Management of Animal Waste (1996-1999)

SOCR792 Seminar (2001)

SOCR564 Soil Chemical Analysis (2001-2003)*

ANEQ448/SOCR448 (3 credits) Manure Management & the Environment (2002-2008)

ANEQ548/SOCR548 (3 credits) Issues in Manure Management (2004-2008)

SOCR171/HORT171 (3 credits) Environmental Issues in Agriculture (2006-2009)

SOCR345/HORT345 (2 credits) Diagnosis & Treatment in Organic Fields (2007)*

ANEQ300-W (1 credit) Equine Manure Management (2007-2010)

SOCR424/HORT424 (3 credits) Topics in Organic Agriculture (2008)*

SOCR481/CIVE481 Water & Wastewater Recycling (2010)*

SOCR350 (3 credits) Soil Fertility Management (2013-2015)

SOCR351 (1 credit) Soil Fertility Laboratory (2013-2015)

SOCR475 (3 credits) Global Challenges in Plant & Soil Sciences (2010-2016)*

Several of these courses were developed jointly with HLA faculty to fill niches in the Organic Agriculture curriculum (HORT 171, 345, and 424).

Graduate Advising

I currently advise 8 graduate students (3 PhD, 4 MS, and 1 MAg). In the past, I have advised 29 graduate students to completion of their degrees (6 PhD, 19 MS, and 4 MAg).

In addition, I served as the Coordinator of the Graduate Panel in Soil & Crop Sciences from 2013-2015. In this role, I improved efficiency of the graduate student application review process, coordinated the review of applications, coordinated the selection of graduate students for departmental awards, provided welcome and general advising support to all departmental graduate students, and surveyed graduate students in order to better meet their needs.

I am also the Coordinator of the MAg Peace Corps Masters Internationalist program for the College of Agricultural Sciences (2009-present).

I have also served on numerous graduate committees for students in the Departments of Animal Sciences, Agricultural and Resource Economics, Atmospheric Science, Extension Education, Civil Engineering, Horticulture and Landscape Architecture, Food Science and Human Nutrition, and Sociology.

Service

1999, Chair, Division S-6 (Soil and Water Management and Conservation), Soil Science Society of America.

1999-2000 and 2004, Soil Science Society of America Board of Directors.

2002-2003, President, Western Soil Science Society.

2002-2006, Associate Secretary, Division 3, Soil Use and Management, International Union of Soil Science.

2005-2007, Associate Editor, Agronomy Journal.

2005-2007, Eastern Slope Director, Board of Directors, Soil and Water Conservation Society, Colorado Branch.

2012-2015, Global Agronomy Representative, Board of Directors, American Society of Agronomy.

2016-2018, President-Elect, President, and Past President, American Society of Agronomy.

International Experience

1986-1987, Junior Scientist, Tropical Soils Collaborative Research Support Program, U.S. Agency for International Development, Niger, West Africa.

1998, Visiting Scientist at the Agriculture and Agri-Food Canada, Lethbridge Research Centre in Alberta, Canada. Paid for by the Canada Alberta Beef Industry Development Fund.

2005, Fulbright Scholar in Environmental Sciences, Argentina and Uruguay.

2010-2011, Deputy Director, USAID Collaborative Research Support Program on Adapting Livestock Systems to Climate Change, Colorado State University.

2012-present, Affiliate Faculty, School of Plant Science and Horticulture, Hawassa University, Ethiopia.

I have also been actively involved in applied research and outreach in partnership with NGOs in Guatemala (with World Neighbors) and in Cambodia (with Sustainable Schools International).

Other Leadership/Administrative Experience

I have served as the Soil & Crop Sciences Department's Extension Coordinator from 1997-2001 and as the Coordinator of the Graduate Program from 2013-2015. In addition, I have had two other substantial administrative roles during my tenure at CSU.

Director, Institute for Livestock and the Environment, Colorado State University, 2008-2012

In 1999, I began to form an inter-disciplinary team of scientists at Colorado State University to evaluate the environmental, economic, and social impacts of animal feeding operations on rural and urban communities and to enhance the beneficial impacts of animal agriculture while helping to solve problems arising from negative impacts. What began with two colleagues within the College of Agriculture in 1999 blossomed into the Institute for Livestock and the Environment (ILE) in 2008. The ILE included about 30 faculty members from five colleges (Agricultural Sciences, Engineering, Liberal Arts, Natural Resources, and Veterinary Medicine) organized into five working teams: ecosystems, air quality, water use and quality, pathogens, and pharmaceuticals. Each of these teams was multi-disciplinary including both physical and social scientists from campus as well as field extension staff. I served as the director of the ILE for five years, whose mission was to solve problems at the interface of livestock production and environmental management.

Deputy Director, USAID Collaborative Research Support Program on Adapting Livestock Systems to Climate Change, Colorado State University, 2010-2011

I served as the director of the Adapting Livestock Systems to Climate Change CRSP (Collaborative Research Support Program) funded by USAID. In that role, I managed a budget of \$20.25 million, a leadership team of four, and 1 full-time and 3 part-time support staff. We utilized RFPs to select projects to support in order to achieve our strategic objectives in Africa and Asia and managed 16 projects.