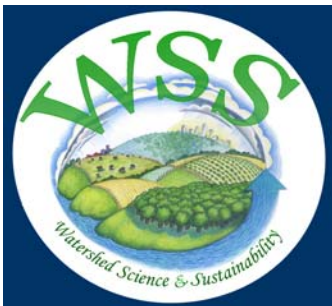


**PhD & Master's level  
assistantships available  
for research in:**

- Landscape Change
- Social-Ecological Linkages
- Integration Science
- Complexity
- Hydrology & Landscape Modeling
- Integrated Watershed Assessment
- Resilience & Adaptive Capacity
- GIS Applications



**INTEGRATIVE  
WATERSHED  
STUDIES**

at the  
**Watershed Science and  
Sustainability Lab**

**TEXAS** ★ **STATE**  
**UNIVERSITY**  
SAN MARCOS



## About the Watershed Science and Sustainability Lab

In the Watershed Science & Sustainability Lab (WSS), we explore new approaches needed to better understand and transform the behavior of societies and individuals interacting with and depending upon their environment. Drawing on systems thinking, complexity theory, and collaborative approaches, our research focuses on i) climate change, adaptive capacity and development, ii) sustaining ecosystems services in human-impacted watersheds, and iii) mechanisms for shifting from conventional to participatory, adaptive management. Our goals are to understand change in coupled social-ecological systems, and to generate knowledge that can serve as a resource for social actors to develop their societies and the natural conditions of their lives.



Photo by Ken Mix

## Current Research

- Vulnerability and the San Luis Valley Agricultural System of Southern Colorado
- Integrated Watershed Assessment of the Pedernales Basin
- Development of a Participatory Decision Support System for the Cypress Creek Watershed, Texas
- Integrated Policy Analysis for Management of the Edwards Aquifer
- Evaluating Social and Ecological Change in the Lower Brazos Basin
- Resilience and Urbanization in the Bull Creek Watershed, Austin, Texas

---

For more information, contact:

Dr. Vicente Lopes

Professor, Aquatic Resources

Department of Biology, Texas State University

601 University Drive, San Marcos, TX 78666

512-245-6709

vlopes@txstate.edu

<http://www.bio.txstate.edu/~watershedlab>

## About Aquatic Resources at Texas State University

The Department of Biology at Texas State University now offers both MS and PhD degrees in Aquatic Resources. The goal of the Aquatic Resources programs is to train professionals capable of addressing the sustainable use of aquatic resources for all human purposes, and for maintaining life-supporting aquatic ecosystems and the myriad of biological communities they contain. This requires the identification, analysis and integration of a range of relevant issues, including not only the scientific, technical and engineering aspects of water, which ultimately define the quantity and quality of available aquatic resources, but also the socioeconomic aspects (economics, law, institutions, demography, politics, etc.), which ultimately define how humans use these resources.



TEXAS  STATE  
DEPARTMENT OF BIOLOGY