



# Colorado State University

## PhD Research Assistantships Available at Colorado State University:

**Area of Study:** Water Economics

**Deadlines:** Application deadline is February 15, 2017, start date is August 2017.

**Apply online:** <http://graduateschool.colostate.edu/prospective-students/apply/>

**Contact:** Marco Costanigro, Chair of the Graduate Program  
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The Department of Agricultural and Resource Economics (DARE) at Colorado State University is recruiting PhD students to participate in research projects in the general area of water economics.

Selected students will identify, in agreement with his/her advising committee, specific research topics, which may focus on (but are not limited to) issues related to the management of groundwater resources, preferences for water conservation policies, and the regional economic impacts of moving water between the agricultural and residential sectors.

**Requirements:** Formal training in economics (including econometrics and microeconomics) and a demonstrated facility with mathematics and/or quantitative methods is expected, but candidates with interdisciplinary backgrounds are encouraged to apply. Previous research experience, excellent written and oral communication, organizational skills, ability to work independently, and some experience are desirable. Candidates must apply to the PhD program in DARE.

### **Graduate assistantship includes:**

- A competitive stipend, including summer months
- Full tuition support
- Full medical insurance

The student will be responsible for required graduate fees. CSU is an EO/EA/AA employer and conducts background checks on all final candidates.

### **The graduate program in the Department of Agricultural and Resource Economics at CSU**

We offer rigorous coursework, coupled with training in applied research and an emphasis on close collaborations between faculty and students. Most of our students are directly involved in grants and projects in cooperation with government agencies and industry stakeholders.

Specific information about the program can be found at  
<http://dare.agsci.colostate.edu/graduate/graduate-programs/>

The research team of supervising faculty includes:

### **Chris Goemans**

Chris' research focuses on the allocation and management of scarce resources, specifically water. Past efforts include studies investigating the impacts associated with water transfers, the relationship between increased climatic variability and the effectiveness of various regional water management schemes, and optimal demand management strategies during periods of drought. More recently his work has dealt with understanding how information affects the decision making of residential water customers, specifically their understanding of their own water use and the rate structures they face. Current research investigates how continued population growth and climate change will affect the management of resources such as water.

### **Dana Hoag**

Dana's research focuses on resource issues related to agriculture. While he has looked a wide variety of issues, he mostly focuses on soil and water conservation. Dana just finished a project looking at how to make nutrient trading between urban and agricultural sources function in North Carolina. He is currently working on two projects in Colorado that look at the economic efficiency and welfare impacts of different policies to address nutrient and selenium pollution from irrigation and other sources in Colorado. He works in close cooperation with Civil Engineering to develop fate and transport models that generate environmental impact information, which is then used for economic study. Dana is also very interested in understanding what motivates people to adopt conservation and has authored several studies on the topic.

### **Dale Manning**

Dale's research uses econometrics and optimization tools to understand the use and value of natural resources, including water, land, fish, firewood, and other energy resources. He is particularly interested in the relationship between natural resources, climate change, and economic development, considering the economic linkages that tie resource value into broader, local economies.

### **Jordan Suter**

Jordan's research primarily addresses issues related to land use policy, water resource economics, and the analysis of pollution control regulations. His research applies the methods of experimental economics as well as analysis of spatially explicit data to analyze how individuals and groups respond to the incentives generated by resource management policies and resource characteristics. Current research projects that he is working on analyze the performance of water quality trading markets, the economic tradeoffs associated with groundwater conservation policies, as well as the efficiency of ambient and dynamic pollution tax policies, which could be implemented in cases where it is difficult to identify specific polluters.

### **About DARE and CSU**

DARE centers its research, teaching and outreach activities in defined areas of excellence: agricultural education, agribusiness management and food systems, the economics of water, land, energy and environment, and agricultural, food and resource policy. We are dedicated to, and appreciated for, engaging stakeholders in high-quality disciplinary and interdisciplinary research, as well as the ability to effectively communicate findings to the public and peers. Excellence in teaching and mentoring students is created with thoughtful and innovative curricular design, emphasizing experiential learning where appropriate and fostering student achievement.

Colorado State University is located in Fort Collins, Colorado, approximately 65 miles North of Denver. Fort Collins is at the base of the Rocky Mountain foothills.