

## **Daniel B. Deisenroth**

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Department of Economics

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### **EDUCATION**

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#### **Colorado State University**

**Fort Collins, Colorado**

Ph.D., Agricultural and Resource Economics, August 2011; Overall GPA: 4.0/4.0

*Dissertation Topic*: “Accounting for Spatial Substitution Patterns and Bioeconomic

Feedback Loops: An Economic Approach to Managing Inland Recreational Fisheries”

Major Advisors: Craig A. Bond and John B. Loomis

#### **Colorado State University**

**Fort Collins, Colorado**

M.S., Agricultural and Resource Economics, May 2008; Overall GPA: 3.79/4.0

Major Advisor: John B. Loomis

#### **University of California, Davis**

**Davis, California**

B.S., Biology, Emphasis: Evolution and Ecology June 2005

Minor: Managerial Economics GPA in Economics: 3.3/4.0

### **RELEVANT POSITIONS HELD**

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#### **California State University, Stanislaus, Turlock, California**

August '11 – Present

Assistant Professor of Economics

##### **HIGHLIGHTS:**

- Teach 24 WTUs per year (8 courses).
- Provide Advisement to undergraduate and graduate students.
- Serve on a variety of committees.
- Co-Advisor to undergraduate Economics Club.

#### **Colorado State University, Fort Collins, Colorado**

August '06 – August '11

Research Assistant, Department of Agricultural and Resource Economics

##### **HIGHLIGHTS:**

- Prepared an \$85,000 Colorado Water Institute grant (which was subsequently funded) addressing invasive species management (zebra/quagga mussels) in Colorado.
- Administer \$200,000 USDA Western Regional Aquaculture Center grant project.
- Manage and oversee the work of undergraduate and graduate students.
- Present research at a variety of academic and extension conferences.
- Present research in a variety of peer-reviewed and extension publications.
- Awarded 2011 Environmental Science Communication Fellowship at CSU.

## **Teaching Experience**

### ***2011 NACTA/ Charles N. Shepardson Graduate Student Teaching Award Recipient***

#### **California State University, Stanislaus**

August '11 – Present

Assistant Professor of Economics

- Teach 3-4 courses per semester, including:
  - ECON 2500 – Principles of Macroeconomics
  - ECON 2510 – Principles of Microeconomics
  - ECON 4200 – Intermediate Microeconomics
  - ECON 4560 – Natural Resource and Environmental Economics
  - ECON 4640 – Economics and Agriculture

#### **Colorado State University, Fort Collins, Colorado**

January '11 – Present

Instructor/Supervisor, Department of Agricultural and Resource Economics

- Design and implement independent study research course for one undergraduate student. Focuses on scientific writing, data management, and economic modeling (AREC 495).

January '10 – December '10

Lecturer, Department of Agricultural and Resource Economics

- Design and instruct Introductory Microeconomics course (2 sections in total).
- Manage large classroom dynamics and small study sessions (130-160 students enrolled)
- Oversee and guide the work of two graduate teaching assistants.

August '08 – Present

Teaching Assistant and Guest Lecturer, Department of Agricultural and Resource Economics

- Guest lectured 5 times for AREC 202, Undergraduate Microeconomics (Fall '08).
- Guest lecture for AREC 540, Graduate Natural Resource Economics (Periodically)

#### **Imagine Charter School, Longmont, Colorado**

Spring '11

Special Guest Lecturer, 6<sup>th</sup> and 8<sup>th</sup> grade classrooms

- Hold environmental/natural resource economics and finance workshops.

#### **Front Range Community College, Fort Collins, Colorado**

December '08 – December '09

Adjunct Faculty, Department of Economics

- Taught two sections, one each of Introductory Macroeconomics and Microeconomics (ECON 201, ECON 202), during both Spring 2009 and Fall 2009 (four sections in total).

#### **Aims Community College, Loveland, Colorado**

August '08 – December '08

Adjunct Faculty, Department of Economics

- Instructor for one section of Introductory Macroeconomics (ECON 201).

## Other Relevant Experience

### **Colorado State University, Fort Collins, Colorado**

August '07 – Present

USDA Foreign Agriculture Service Cochran Fellowship Program, Fall '07 – Present

- Liaison and guide to international visitors learning American agricultural practices.
- Worked with visiting groups from Afghanistan, Albania, Algeria, Bosnia and Herzegovina, Iraq, Tunisia, and Turkey.
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### **University of California, Davis, California**

June '05-August '06

Laboratory and Administrative Assistant, Department of Biology

- Organize teaching laboratories, collect specimens in the field, administrative support.

## PUBLICATIONS AND WORKS IN PROGRESS

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### Peer Reviewed Journal Articles

#### *Published*

**Deisenroth, D.B.**, J. Loomis and C.A. Bond (2009) “Non-Market Valuation of Off-Highway Vehicle Recreation in Larimer County, Colorado” *Journal of Environmental Management*, 90,11 pp. 3490-3497

**Deisenroth, D.B.**, C.A. Bond and J.B. Loomis (2011) “Accounting for Backward and Forward Linkages to Estimate the Economic Contribution of the Private Recreation-Based Aquaculture Industry in the Western United States” *Forthcoming, Journal of Aquaculture Economics*

#### *In Submission*

**Deisenroth, D.B.**, C.A. Bond and J.B. Loomis (2012) “Combining Information from the Random Utility Model with Input Output Models in Order to Account for Substitution Effects: The Case of a Recreational Fishery” *Submitted to the Annals of Regional Science*

Auerbach, D., R. McShane, **D.B. Deisenroth**, T. Wilding, K. McCluney, N. Poff (2012) “Prospects and Pitfalls for Ecosystem Service Assessment in Rivers” *Submitted to Conservation Biology*

#### *Conference Papers and Works in Progress*

Zhang, T., **D.B. Deisenroth** and C.A. Bond (2012) “What is the Cost of Endangered Species Management to Anglers?”

**Deisenroth, D.B.** and C.A. Bond (2012) “The Economic Significance of Bioeconomic Feedback Loops: Incorporating Complex Spatial Substitution Patterns Into the Optimal Management of a Recreational Fishery”

**Deisenroth, D.B.** and C.A. Bond (2012) “Adaptive Management of an Invasive Species: The Case of Zebra Mussels in the Western United States”

**Deisenroth, D.B.** and C.A. Bond (2012) “Spillover Effects from Alaska’s Salmon Enhancement Program: Does Commercial Fishing Help Recreational Anglers?”

### **Proceedings and Abstracts**

**Deisenroth, D.B.**, C.A. Bond, S. Davies, J.B. Loomis, A. Seidl, A. Davies, C. Myrick, K. Fitzsimmons, G. Fornshell, F. Conte, J. Boren (2009) “The Economic Contribution of the Aquacultural Suppliers of Recreational Fish in The Western United States” *Journal of Agricultural and Resource Economics* 34,4 pp. 540-541

**Deisenroth, D.B.**, J.B. Loomis and C.A. Bond (2008) “Non-Market Valuation of Off-Highway Vehicle Recreation in Larimer County, Colorado” *Journal of Agricultural and Resource Economics* 33,3 p. 495

### **Final Reports to Funding Agencies**

**Deisenroth, D.B.** and C.A. Bond (2010) “The Economic Contribution of the Private, Recreation-Based Aquaculture Industry in the Western United States” *Final Report to the Western Regional Aquaculture Center*

### **Book Chapters**

**Deisenroth, D. B.** And J. Bond (2011) “La Montanita Food Cooperative,” in Profiles in Cooperation: Case Studies from the Rocky Mountain Region, Published by Rocky Mountain Farmers Union Education and Charitable Foundation and CHS Foundation

### **Extension and Outreach Publications**

Zhang, T, **D.B. Deisenroth** and C.A. Bond (2011) “What is the Value of a Fishing Trip? A Comparison of Public and Private Anglers in Colorado and California”  
<<http://dare.colostate.edu/pubs/EMPR%2011-01.pdf>>

**Deisenroth, D.B.** and C.A. Bond (2011) “Integrating Biology and Economics into Recreational Fishery Management” *Waterlines* forthcoming

**Deisenroth, D.B.** and C.A. Bond (2010) “The Total Economic Contribution of the Private, Recreation-Based Aquaculture Industry in the Western United States” *The Fishline*, 22,4

Bond, C.A. and **D.B. Deisenroth** (2010) “Private Fish Hatcheries Promote Thousands of Jobs and Billions in Income in the West” *Colorado Media Press Release (Various media outlets)*

**Deisenroth, D.B.** and C.A. Bond (2010) “The Economic Contribution of the Private, Recreation-Based Aquaculture Industry in the Western United States” *Glossy Research Fact Sheet*  
<http://dare.colostate.edu/tools/aquaculture/glossy1.pdf>

Bond, C.A. and **D.B. Deisenroth** (2010) “The Aquacultural Suppliers of Recreational Fish”  
<http://dare.colostate.edu/tools/aquaculture.aspx>

**Deisenroth, D.B.** and C.A. Bond (2010) “A Brief Look at the Customers of the Aquacultural Suppliers of Recreational Fish” *The Fishline*, 22,3 p.3

**Deisenroth, D.B.** and C.A. Bond (2010) “Progress Report: The Economic Contribution of the Private, Recreation-Based Aquaculture Industry in the Western United States” *The Fishline*, 22,1 pp.10

**Deisenroth, D.B.** and C.A. Bond (2010) “The Aquacultural Suppliers of Recreational Fish (ASRF): A Look at the Freshwater Recreational Fish Industry in the Western United States” *Department of Agricultural and Resource Economics Economic Development Report*, 3-1, pp.1-11 <http://dare.colostate.edu/pubs/edr10-01.pdf>

**Deisenroth, D.B.** and C.A. Bond (2009) “Combining Information from Private Aquaculture Facilities, Private Fisheries, and Anglers to Estimate the Economic Contribution of the Aquacultural Suppliers of Recreational Fish” *The Fishline*, 21,4 p. 10

**Deisenroth, D.B.** and C.A. Bond (2009) “Moving Forward With the Economic Contribution of the Aquacultural Suppliers of Recreational Fish” *The Fishline*, 21,3 p. 10

**Deisenroth, D.B.** and C.A. Bond (2009) “Update: Estimating the Economic Contribution of the Aquacultural Suppliers of Recreational Fish (ASRF) in the Western U.S.” *The Fishline*, 21,2 p. 11

**Deisenroth, D.B.** and C.A. Bond (2009) “Update: Estimating the Economic Contribution of the Aquacultural Suppliers of Recreational Fish (ASRF) in the Western United States” *The Fishline*, 21,1 pp. 4-5

**Deisenroth, D.B.** and C.A. Bond (2009) “Angler Survey Frequently Asked Questions”  
<http://dare.agsci.colostate.edu/csuaagecon/anglersurvey>

**Deisenroth, D.B.** and C.A. Bond (2009) “Privately Stocked Fishery Survey Frequently Asked Questions” <http://dare.agsci.colostate.edu/csuaagecon/privatefisheryimpact.aspx>

Bond, C.A. and **Deisenroth, D.B.** (2008) “The Economic Contributions of the Suppliers of Recreational Fish: Frequently Asked Questions”  
<http://dare.agsci.colostate.edu/csuaagecon/wracimpact.htm>

Bond, C.A. and **D.B. Deisenroth** (2008) “Estimating the Economic Impacts of the Aquacultural Suppliers of Recreational Fish” *Waterlines*, <http://www.fish.washington.edu/wrac/>

Bond, C.A. and **D.B. Deisenroth** (2008) “Phase One of Colorado State University Study on the Economic Impacts of the Aquacultural Suppliers of Recreational Fish Nearing Completion” *The Fishline*, 20,4 p. 5

Bond, C.A. and **D.B. Deisenroth** (2008) “The Economic Impacts of the Aquacultural Suppliers of Recreational Fish Phase One Nearing Completion” *The Fishline*, 20,3 p. 8

Bond, C.A. and **D.B. Deisenroth** (2007) “Colorado State University to Lead Effort to Quantify Economic Contribution of Recreational Fish Producers” *The Fishline*, 19,4 p. 1

## **PRESENTATIONS**

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### **Invited Presentations**

**Deisenroth, D.B.** (2011) “The Economic Contribution of the Private, Recreation-Based Aquaculture Industry in the Western United States” *Presented at the Colorado Aquaculture Association Annual Meetings*, Mount Princeton, Colorado, January

- *Also presented at the Wisconsin Aquaculture Association Annual Meetings*, Pewaukee, Wisconsin, March

**Deisenroth, D.B.** (2010) “The Economic Contribution of Private Sector Aquaculture-Based Recreational Fishing in the Western USA- Research Project Update” *Presented at the Colorado Aquaculture Association annual meetings*, Mount Princeton, Colorado, January

**Deisenroth, D.B.** (2009) “A Preliminary Look at the Aquacultural Suppliers of Recreational Fish in The Western United States” *Presented at the Colorado Aquaculture Association annual meetings*, Mount Princeton, Colorado, January

### **Other Presentations**

**Deisenroth, D.B.** (2011) “Incorporating Complex Spatial Substitution Patterns and Bioeconomic Feedback Loops into the Optimal Management of a Renewable Natural Resource: The Case of a Recreational Fishery” *Presented at the Western Agricultural Economics Association annual meeting*, Banff, Calgary, June

- *Also Presented at the Front Range Student Ecology Symposium*, Fort Collins, Colorado, February
- *Also presented at the CSU DARE/ECON Graduate Research Symposium*, Fort Collins, Colorado, February

- Deisenroth, D.B.** (2011) “The Economic Contribution of the Private, Recreation-Based Aquaculture Industry in the Western United States” *Presented at the World Aquaculture Society Annual Meetings*, New Orleans, Louisiana, March
- *Also presented at the Western Regional Aquaculture Center Annual Meetings* (With C.A. Bond), Spokane, Washington, October (2010)
  - *Also Presented at the United States Trout Farmers’ Association and National Association of State Aquaculture Coordinators joint annual meeting*, Branson, Missouri, September (2010)
- Deisenroth, D.B.** (2010) “Combining Information from the Random Utility Model with Input Output Models in Order to Account for Substitution Effects: The Case of a Recreational Fishery” *Presented at the North American Meetings of the Regional Science Association International, sponsored by The North American Regional Science Council*, Denver, Colorado, November
- *Also presented as a poster at the California State University, Stanislaus, Research, Scholarly and Creative Activity Week*, Turlock, California, October (2011)
- Deisenroth, D.B.** (2010) “The Economic Significance of Bioeconomic Feedback Loops: The Case of a Recreational Fishery” *Presented by Daniel Deisenroth at the Department of Agricultural and Resource Economics Lunch Seminar Series*, Fort Collins, Colorado.
- *Also presented as a poster at the Agricultural and Applied Economics Association annual meetings*, Denver, Colorado, July
- Deisenroth, D.B.** (2010) “A Bioeconomic Approach to Capturing the Economic Value and Economic Contribution of Fish Stocking in Colorado Waters” *Presented at the CSU DARE/ECON Graduate Research Symposium*, Fort Collins, Colorado, February
- Deisenroth, D.B.** (2009) “The Economic Contribution of the Aquacultural Suppliers of Recreational Fish in The Western United States” *Presented at the Western Agricultural Economics Association annual meetings*, Lihue, Hawaii, June
- *Also presented at the Western Division of the American Fisheries Society Student Colloquium*, Fort Collins, Colorado, October
- Deisenroth, D.B.** (2009) “External Validation of CV Using a Hypothetical Referendum: Comparing Hypothetical and Actual Voting Behavior for Open Space in Southern New Hampshire” *Presented at the CSU DARE/ECON Graduate Research Symposium*, Fort Collins, Colorado, February
- *Also presented at the Northeastern Agricultural and Resource Economics Association annual meeting*, Burlington, Vermont, June
- Deisenroth, D.B.** (2008) “Non-Market Valuation of Off-Highway Vehicle Recreation in Larimer County, Colorado” *Presented at the Department of Agricultural and Resource Economics Lunch Seminar Series*, Fort Collins, Colorado, April
- *Also Presented at the Western Agricultural Economics Association annual meeting*, Big Sky, Montana, June

## **Presentations by Co-Authors**

Bond, C.A. (2010) Aquaculture and Stocking Recreational Water in the West: A Socioeconomic Assessment (with **D.B. Deisenroth**), *Aquaculture 2010: California Aquaculture Association Special Session*, San Diego, California, March

## **GRANTS AND AWARDS**

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CSU Stanislaus Research, Scholarly and Creative Activity Grant - \$4,795, (Under Review)  
North American College Teachers of Agriculture/ Charles N. Shepardson Graduate Student Teaching Award - \$500, Spring '11  
Western Agricultural Economics Association Travel Scholarship - \$600, Summer '11  
Colorado State University, DARE, Travel Scholarship - \$266, Summer '11  
"Adaptive Management of an Invasive Species: The Case of Zebra Mussels in the Western United States" (with C.A. Bond and C. Goemans) Colorado Water Institute \$85,000, 2009-2011.  
Colorado State University "Ag Day" Scholarship - \$2,000, Fall '10 – Spring '11  
Wisconsin Aquaculture Association Travel Scholarship - \$842.43, Spring '09  
Colorado State University, DARE, Travel Scholarship - \$992.75, Summer '09  
Agricultural and Applied Economics Association Travel Scholarship - \$290, Summer '10

## **SERVICE AND MISCELLANEOUS**

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### **Reviewer for the following journals and annual meetings:**

Western Economics Forum, Fall '11 – Present  
Journal of Natural Resource Policy Research, Fall '11 – Present  
Journal of Environmental and Resource Economics, Spring '11 – Present  
Journal of Environmental Economics and Policy Studies, Summer '11 – Present  
Agricultural and Applied Economics Association Annual Meetings, Fall '10 – Present  
Journal of Tourism Management, Fall '09 – Present  
Journal of Agricultural and Resource Economics, Summer '09 – Present  
Western Economics Forum, Fall '08 – Present  
Western Agricultural Economics Association Annual Meetings, Spring '08 – Present

### **Membership:**

Omicron Delta Epsilon: International Economics Honor Society, Fall '07 – Present  
European Association of Environmental and Resource Economists, Spring '11 – Present  
Agricultural and Applied Economics Association, Spring '10 – Present  
Western Agricultural Economics Association Member, Spring '08 – Present  
Northeastern Agricultural and Resource Economics Association, Spring '09 – Spring '10  
Southern Agricultural Economics Association, January '11 – Present

### **Departmental Service:**

President, DARE Graduate Student Organization, Fall '10 – Spring '11  
DARE/ECON Graduate Student Symposium Committee Member/Organizer, Fall '08 – Spring '11  
Graduate Student Computer Lab Manager, Spring '07 – Summer '10  
Graduate Student Organization Secretary, Spring '08 – Summer '09



### **Other Service**

Advisor to the California State University, Stanislaus, Undergraduate Economics Club  
Advisor to the Colorado State University Undergraduate Flyfishing Club

### **Languages**

Native English, Intermediate Japanese (can read and write in hiragana and katakana, as well as several hundred kanji), Intermediate French (Formerly advanced, but out of practice for ten years. Conversation skills are therefore severely limited. Essentially, I would be conversational with 2 months of practice, but I cannot currently hold a conversation.)

### **Hobbies and Interests**

Bouldering, weightlifting, mountain biking, road biking, snowboarding, snowshoeing, building and driving 4x4s, fishing, hiking, backpacking, landscaping, cooking, travel, Japanese culture, Chopin.

### **Other**

Happily married for 6 years.

## **PROFESSIONAL REFERENCES**

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John B. Loomis, Professor  
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