



## RESEARCH EXPERIENCE:

Title: **Research Associate** 05/05 – 06/06  
Employer: Center for Public Policy Studies at CSU, Stanislaus.  
Duties: Quantify the factors that determine residential water demand, examine water billing system, and estimate the effectiveness of water conservation materials.

Supervisor: Dr. Kelvin Jasek-Rysdahl (209) 667-3342

Title: **Graduate Research Assistant** 06/00 – 07/03  
Employer: Colorado State University.  
Duties: Develop economic optimization models that utilize hydrologic data to evaluate environmental water shortage and water quality policies.

Supervisor: Dr. Marshall Frasier (970) 491-6071

Title: **Graduate Research Assistant** 01/98 – 05/00  
Employer: University of Idaho.  
Duties: Develop stochastic optimization model to estimate non-market value of water.  
Supervisor: Dr. Garth Taylor (208) 885-7533

## RECENTLY FUNDED PROJECTS/GRANTS:

“Preparing Underrepresented Students for Careers in Agriculture through Recruitment, Experiential Learning, and Community Service.” Principal Investigator. United States Department of Agriculture (USDA) Cooperative State Research, Education, and Extension Service (CSREES). 7/07 – 7/09. (\$240,000)

“Campus and Community Sustainability Program” Co-Investigator with D. Colnic, I. Bowers, P. Garone, T. Perrello, and A. McNally. Global Learning in the Colleges Initiative. Office of the Provost and Global Affairs at California State University, Stanislaus. 7/07 – 6/08. (\$20,400).

“Underrepresented Students in Agricultural Studies: Strengthening the 2+2 Transfer Model through Recruitment and Retention.” Principal Investigator. United States Department of Agriculture (USDA) Cooperative State Research, Education, and Extension Service (CSREES). 8/05 – 7/07. (\$103,777)

“Estimating Residential Water Demand and the Effectiveness of Water Conservation Education.” Principal Investigator. City of Turlock, CA. 6/05 – 12/05. (\$10,000)

“Estimating Minimum Cost Food Budgets.” College of Arts, Letters, & Sciences Dean’s Teaching Initiative. California State University, Stanislaus. 12/04. (\$400)

## AWARDS:

- Papageorge Faculty Development Award. CSU Stanislaus, University-wide recognition (2008).
- Junior Faculty Award. CSU Stanislaus, College of Humanities and Social Sciences (2007).
- Junior Faculty Award. CSU Stanislaus, College of Arts, Letters, and Sciences (2005).
- Graduate Student Teaching Award. North American Colleges & Teachers of Agriculture (2003).
- Charles N. Shepardson Graduate Student Teaching Award. Colorado State University (2003).

## **PUBLICATIONS:**

- Houk, E., M. Frasier, G. Taylor. "Evaluating Water Transfers from Agriculture for Reducing Critical Habitat Water Shortages in the Platte Basin." *Journal of Water Resource Planning and Management*. Volume 133, Number 4. July 2007.
- Houk, E. "Water Use in Turlock, CA: Evaluating the Water Rate System, the Effectiveness of Water Conservation Materials, and Estimating Residential Water Demand." Report for the Center for Public Policy Studies at California State University, Stanislaus. January 2006.
- Houk, E. "Evaluating the Effectiveness of Materials that Promote Voluntary Water Conservation." *Interdisciplinary Environmental Review*. Volume 8, Number 2. December, 2006.
- Houk, E., M. Frasier, E. Schuck. "The Agricultural Impacts of Irrigation Induced Waterlogging and Soil Salinity in the Arkansas Basin." *Journal of Agricultural Water Management*, Volume 85. September, 2006.
- Houk, E., M. Frasier, E. Schuck. "Irrigation Technology Decisions in the Presence of Waterlogging and Soil Salinity." *Global Business & Economics Review*. Volume 7, Number 4, 2005.
- Houk, E., M. Frasier, E. Schuck. "The Regional Effects of Waterlogging & Soil Salinization on a Rural County in the Arkansas River Basin of Colorado." *AgEcon Search: Research in Agricultural and Applied Economics*, Selected Paper of the Western Agricultural Economics Association Meeting. Honolulu, HI. June 30 - July 2, 2004.
- Ellingson, L., E. Houk, M. Frasier, and E. Schuck. "Benefits of Controlling Saline Water in Colorado." *AgEcon Search: Research in Agricultural and Applied Economics*, Selected Paper of the Western Agricultural Economics Association Meeting. Honolulu, HI. June 30-July 2, 2004.
- Houk, E., M. Frasier, E. Schuck. "Linking Hydrologic and Economic Modeling to Evaluate Waterlogging and Soil Salinization in the Arkansas River Basin." Abstract in the *Journal of Agricultural and Resource Economics*. Vol. 28 No.3, December 2003.
- Houk, E., M. Frasier, E. Schuck. "Linking Hydrologic and Economic Modeling to Evaluate Salinity Mitigation in the Arkansas River Basin." *AgEcon Search: Research in Agricultural and Applied Economics*, Selected Paper of the Western Agricultural Economics Association Meeting. Denver, CO. July 13 – 15, 2003.
- Houk, E., M. Frasier. "Identifying Cost-Effective Sources for Water Transfers from Agriculture to Endangered Species Preservation in the Platte River Basin." Abstract in the *Journal of Agricultural and Resource Economics*. December 2002.
- Houk, E., M. Frasier. "Identifying Cost-Effective Sources for Water Transfers from Agriculture to Endangered Species Preservation in the Platte River Basin." *AgEcon Search: Research in Agricultural and Applied Economics*, Selected Paper of the Western Agricultural Economics Association Meeting. Long Beach, CA. July 27 – 31, 2002.
- Houk, E., M. Frasier, G. Taylor. "Valuing Irrigation Water in the Platte River Basin." Proceedings of the 11th Annual South Platte Forum. Colorado Water Resources Research Institute, Information Series Report No. 92. October 2000.
- Houk, E., G. Taylor, M. Frasier "Valuing the Characteristics of Irrigation Water in the Platte River Basin." *AgEcon Search: Research in Agricultural and Applied Economics*, Selected Paper of the Western Agricultural Economics Association Meeting. Vancouver B.C. June 29-July 1, 2000.

## **PROFESSIONAL PRESENTATIONS:**

- Houk, E. and M. Bender. "How Community Colleges and Federal Grants Were Used to Create a New Multidisciplinary Agriculture Program." Poster at the North American Colleges and Teachers of Agriculture (NACTA) 54<sup>th</sup> Annual Conference. Logan, UT. June 10 – 13, 2008.
- Houk, E. "Residential Water Use in the Absence of Water Meters." Presentation at CSU, Fullerton's 50<sup>th</sup> Anniversary Conference "In Celebration of Research: Strengthening CSU's Research Partnerships and Collaborations." Fullerton, CA. March 14, 2007.
- Houk, E. and M. Bender. "Preparing Underrepresented Students for Careers in Agriculture Through Recruitment, Experiential Learning, and Community Service." Poster at CSU, Fullerton's 50<sup>th</sup> Anniversary Conference "In Celebration of Research: Strengthening CSU's Research Partnerships and Collaborations." Fullerton, CA. March 14, 2007.
- Houk, E., M. Cooke, D. Whitmore. "Making Turlock a Greener Community." Invited Speaker, Great Central Valley Bioneers Conference. Turlock, CA. October 19 – 21, 2007.
- Houk, E. "Residential Water Demand in the Absence of Volumetric Water Pricing." International Interdisciplinary Conference on the Environment. Portland, ME. June 30 – July 3, 2007.
- Houk, E. "Water Use in Turlock, CA." Invited Speaker, Turlock City Council. June 27, 2006.
- Houk, E. "The Economics of Water Transfers for Endangered Species: An Interdisciplinary Approach." International Interdisciplinary Conference on the Environment. Kona, HI. June 22 – 24, 2006.
- Houk, E. "Estimating the Effectiveness of Water Conservation Materials in the Absence of Volumetric Water Pricing." International Interdisciplinary Conference on the Environment. Kona, HI. June 22 – 24, 2006.
- Houk, E., M. Frasier, E. Schuck. "Evaluating the Adoption of Higher Efficiency Irrigation Systems in the Presence of Waterlogging & Salinization." Business & Economics Society International. Flagstaff, AZ. July 22 – 25, 2005.
- Houk, E. "Considerations when Seeking Faculty Teaching Positions within General Economics Departments." American Agricultural Economics Association Annual Meeting. Denver, CO. August 1 – 4, 2004.
- Houk, E., M. Frasier, E. Schuck. "The Regional Effects of Waterlogging & Soil Salinization on a Rural County in the Arkansas River Basin of Colorado." Western Agricultural Economics Association Meeting. Honolulu, HI. June 30 – July 2, 2004.
- L. Ellingson, E. Houk, M. Frasier, and E. Schuck. "Benefits of Controlling Saline Water in Colorado." Western Agricultural Economics Association Meetings. Honolulu, HI. June 30 – July 2, 2004.
- Houk, E., M. Frasier, E. Schuck. "Linking Hydrologic and Economic Modeling to Evaluate Salinity Mitigation in the Arkansas River Basin." Western Agricultural Economics Association Meetings. Denver, CO. July 13 – 15, 2003.

Houk, E., M. Frasier. "Identifying Cost-Effective Sources for Water Transfers from Agriculture to Endangered Species Preservation in the Platte River Basin." Western Agricultural Economics Association Meetings. Long Beach, CA. July 27 – 31, 2002.

Booker, J., M. Frasier, E. Houk, A. Michelsen, G. Taylor. "Foregone Benefits in Supplying Water for Endangered Species Recovery." American Water Resources Association and Universities Council on Water Resources Annual Meeting. Snowbird, UT, June 27 – 30, 2001

Houk, E. "Valuing Irrigation Water in the Platte River Basin." Poster Presentation at the Annual South Platte Forum meetings in Longmont CO, October 24 – 25, 2000.

Houk, E., G. Taylor and M. Frasier. "Valuing the Characteristics of Irrigation Water in the Platte River Basin." Western Agricultural Economics Association Meetings, Vancouver B.C. June 29 – July 1, 2000.

### **SELECT PROFESSIONAL SERVICE:**

- Textbook Review, "Agricultural and Food Policy" by Knutson, et al. (2008)
- Abstract Reviewer, International Interdisciplinary Conference on the Environment. (2008)
- Moderator, International Interdisciplinary Conference on the Environment. (2007)
- Textbook Review, "Economics: Principles and Policy" by Baumol and Blinder. (2006)
- Reviewer, *Global Business & Economics Review*. (2005)
- Discussant, Business & Economics Society International (B&ESI) Conference. (2005)
- Reviewer, U.S. Geological Survey (USGS)/National Institutes for Water Resources (NIWR) National Competitive Grants in Water Resources. (2004)
- Reviewer, Natural Resource Economics Sessions for the American Agricultural Economics Association Annual Conference. (2004)
- Moderator, Natural Resource Economics Paper Session at the American Agricultural Economics Association Annual Conference. (2004)
- Organized Symposium at the American Agricultural Economics Association Annual Conference, "Interviewing and Becoming a Successful Academic Professional." (2003)
- Treasurer of the Graduate Student Section (GSS) of the American Agricultural Economics Association. (2002)

### **SELECT UNIVERSITY SERVICE:**

- Co-organizer of California State University, Stanislaus' "Great Central Valley Bioneers Conference". October 19 – 21, 2007.
- Co-author of the Masters of Science in Ecology and Sustainability program. Approved by the California State University Chancellor's office on October 25, 2006.
- Created five new economics courses that support the Agricultural Studies and Ecology & Sustainability Programs.

- Established a local chapter of Omicron Delta Epsilon (ODE) at CSU-Stanislaus and serve as the Faculty Advisor. (2003-Current)
- Co-advisor of the Economics Club at CSU-Stanislaus. (2003-Current).
- Member of the Economics Scholarship Review Committee. (2003-Current)
- Member of the Agricultural Studies Council at CSU Stanislaus (2003-Current).

### **SELECT PROFESSIONAL ORGANIZATIONS:**

- American Agricultural Economics Association (AAEA)
- American Economics Association (AEA)
- Association of Environmental and Resource Economists (AERE)
- Business & Economics Society International (B&ESI)
- Gamma Sigma Delta (GSD), The Honor Society of Agriculture
- Interdisciplinary Environmental Association (IEA)
- North American Colleges and Teachers of Agriculture (NACTA)
- Omicron Delta Epsilon (ODE), International Honor Society in Economics

### **REFERENCES:**

Dr. Kelvin Jasek-Rysdahl, Professor  
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