

David A. Swenson

811 16th St.
Ames, IA 50010
(Mobile) 515/509-1429

177 Heady Hall
Iowa State University
Ames, IA 50011
(W) 515/294-7458 (Mobile) 515/509-1429
dswenson@iastate.edu

Current Positions and Responsibilities

Associate Scientist. Department of Economics, Iowa State University, Ames, Iowa. June 1992, to the present.

Adjunct Lecturer. The School of Urban and Regional Planning, The University of Iowa, 2003 to the present.

Other Relevant Professional Experiences

Adjunct Lecturer. Department of Community and Regional Planning. ISU, 1997-1999, 2003 to 2016.

Lecturer. Great Plains Interactive Distance Education Alliance (ISU), 2007 to 2012.

Research Director. Iowa Public Policy Education Project, Department of Economics, Iowa State University, Ames, Iowa. October 1989 to June 1992.

Planning and Program Development Administrator. Iowa Department of Agriculture and Land Stewardship, Des Moines, Iowa. January 1989 to October 1989.

Research Associate. Public Policy Center, The University of Iowa, Iowa City, Iowa. July 1988 to January 1989. **Senior**

Researcher. Institute of Public Affairs, Division of Continuing Education, The University of Iowa, Iowa City, Iowa. March 1986 to July 1988. **Policy Research Specialist.** Institute of Public Affairs, Division of Continuing Education, The University of Iowa, Iowa City, Iowa. April 1985 to March 1986.

Field Coordinator. 65+ Rural Health Study, Center for Health Services Research, College of Medicine, University of Iowa, Iowa City, Iowa. July 1984 to March 1985.

Senior Research Assistant. Center for Health Services Research, College of Medicine, University of Iowa, Iowa City, Iowa. March 1983 to July 1984.

Selected Current or Recent Publicly-Sponsored Research Projects Include:

- The Economic Impact of Iowa's Dairy Industry, 2019. Project completed for ISU Extension Value Added Agriculture.
- The Economics of Recovery: Marshalltown, Iowa. Paper and supporting materials prepared in support of Iowa State University Sustainable Environments graduate program and research under a grant from the Design College.
- Farm and Ethanol Sector Economic Impacts from Trade Actions. Project conducted to assist CALS at ISU evaluate Iowa losses from 2018 trade disruptions do to U.S. administrative sanction impositions.
- The Economic Impact of Penn State University, project funded by PSU.
- Economic Impact and Job Creation Relative to Large-Scale, High Voltage Transmission Infrastructure, funding through the TransGrid X 2030 Symposium, Iowa State University, July, 2018
- Evaluation of the Secure an Advanced Vision for Education (SAVE) Fund sponsored by the Iowa Association of School Boards.
- The Economic Impacts of Camp Dodge. Research sponsored by the Iowa National Guard.
- Evaluation of Advanced Cellulosic Ethanol Production in Pennsylvania. Research collaboration with Penn State University.
- Local Foods Economic Impact Toolkit. Research collaboration with USDA Agriculture Marketing Service and Colorado State University.
- Association of Public Land Grant Universities. Collaboration with the U.S. BEA to assist in the establishment of standards for university impact studies.
- North Carolina State University. Study of the value of local foods production in rural North Carolina
- Evaluation of Kane County, Illinois, local food potential, in collaboration with the American Farmland Trust.
- Estimation of the economic impact of recycling, reuse, and other environmentally friendly industries in the Houston-Galveston Area, research underwritten by the Houston-Galveston Area Council planning organization.
- Collaborating Researcher. University Economic Development Center Program (ISU), Economic Development Administration, 2004-2019
- USDA. Research and report on the development of a purchasing managers' index for biobased products.

- › USDA. Evaluation and determination of green jobs and their economic development implications for rural areas.
- › Leopold Center. The economic impacts of small meat production in Iowa.
- › Leopold Center. Understanding Iowa local foods production in relation to dense urban demand.
- › Econ/ISU. Evaluation of federal and state stimulus program economic impacts.
- › General Assembly of Iowa. Assessment of the economic impact of climate change in Iowa.
- › New York State Energy Research and Development Agency. Evaluation of potential job gains and regional economic impacts of cellulosic ethanol production.
- › Iowa Policy Project. Economic impacts of American Recovery and Reinvestment Act spending in Iowa.
- › Rebuild Iowa Office. Research on the economic impacts of the 2008 Iowa floods and flood recovery efforts.
- › Manufacturing Extension Partnership. Research into the energy content of industrial production in Iowa.
- › USDA/CIRAS. Bio-based products indicators research in support of federal program and policy mandates.
- › Iowa Futures Foundation. Assessment of Iowa's research and development climate.
- › Leopold Center. Economic impacts of local foods jobs gains in Iowa and in the Upper Midwest.
- › Iowa Department of Human Services. Evaluation of closing one of the state's Mental Health Facilities.
- › Iowa Finance Authority. Housing Needs Assessment for Iowa.
- › State of California (subcontract). Evaluation of alternative waste management and reuse options for regions and the state of California.
- › Iowa Department of Economic Development / HUD. Data and evaluation in support of the Iowa 5-Year Housing Plan
- › Leopold Center. The determinants of regional economic gains considering different types of biofuels development and ownership structures – the overall economic impact and rural development potential of ethanol production in the Midwest.
- › Iowa DNR. The economic impact of recycling and re-use in Iowa – a commodity based perspective.
- › CIRAS / EDA. Regional targeted industry research utilizing input-output data systems to isolate regional growth potential, commodity imports, and potential commodity exports.
- › Leopold Center. Assessment of local impacts of organic crop conversion in NW Iowa.
- › Leopold Center. Regional gains and costs associated with expanded fruit and vegetable production and direct distribution in Iowa.
- › NW Area Foundation / Leopold Center. A nutrition-based evaluation of local foods development potential in NE Iowa.
- › Leopold Center. Economic impact assessments of agriculture and food processing systems in Iowa;
- › Iowa Policy Project. Economic impacts of energy alternatives: wind, switch-grass, and conservation programs;
- › Iowa Department of Cultural Affairs. The creative economy in Iowa and the consequences for urban and non-urban change.
- › Council of State Governments. Developing and applying economic impact methodologies to recycling industries or recycled commodities.

Public Engagement

Invited speaker or panel member (recent or selected, only)

- › Workshop on understanding local government fiscal conditions, Labor Center at the University of Iowa, January 2019.
- › Guest on Wyatt Cenac's (HBO) program, Modern Problems, on the status of Iowa's current and future workforce. January 2019
- › Panelist, Iowa's Economic Forecast for 2019. The Business Record, West Des Moines, IA, January 2019
- › Panelist, Des Moines Business Record annual Economic Forecast Luncheon. February 2019
- › Keynote speaker, Iowa's Economic Outlook. Iowa Credit Union League Legislative Day, Des Moines, IA, February 2019
- › Keynote speaker at the Iowa Assessors annual conference in Council Bluffs. July 2019
- › Keynote speaker at the Iowa Hunger Summit, August 2019
- › Panelist and presenter at the ISU sponsored Rural Summit, August 2019
- › Workshop on understanding economic impacts for the Iowa-Illinois Community Development Society annual school, Moline, IL, August 2019
- › Presentation to the Iowa Aging Conference, September 2019
- › Presentation to Bankers Trust conference on the Iowa economy, September 2019

- Presentation to Bank Iowa officers on the Iowa economy, October 2019
- Keynote speaker, Iowa's Demography and the YMCA, Iowa YMCA annual conference, November 2018.
- Keynote speaker, 2018 Economic Luncheon, sponsored by the Community Bank and Trust and the Waterloo Courier. The U.S., Iowa, and the Waterloo-Cedar Falls Regional Economy. Cedar Falls, IA. October 2018.
- Workshop (with Liesl Eathington). Indian Hills Executive Leadership Series. Presentations and facilitation regarding issues affecting labor supply, growth, and training in Iowa. Ottumwa, IA. September 2018
- Workshop, WIU Institute for Rural Affairs annual community development training conference. Understanding Community Economics. Moline, IL. August, 2018.
- Panelist, presenter, Understanding Iowa's Fiscal Pickle. 2018 ISFIS Conference, Ankeny IA, June 2018
- Guest, Close-up, KCCI TV, Rural Urban Divide in Iowa, Des Moines, IA, June 2018
- Panelist, Rural Urban Divide meeting, Panora, IA. June 2018
- Guest speaker, Woodbine H.S. senior class. Understanding Demographic and Economic Constraints in Rural Communities, May 2018.
- Guest, Ethical Perspectives on the News. KCRG TV, on Tariffs and Trade Wars: the Good and the Bad. Cedar Rapids, IA. May, 2018.
- Presentation, Workforce Summit, Indian Hills Community College, Iowa's and SE Iowa's Economic Outlook. Ottumwa, IA. April 2018.
- Keynote speaker, Mitchell County Ag Appreciation Breakfast. Iowa's and Mitchell County's Economy. Osage, IA. March 2018.
- Presentation, Wallace Foundation for Rural Development annual board meeting. Iowa's Economy and Consequences of Change for SW Iowa. Lewis, IA. March 2018
- Guest, Ethical Perspectives on the News, KCRG TV, on The Effects of NAFTA Revisions on Iowa Farmers. Cedar Rapids, IA. February 2018.
- Panelist, rural Iowa: challenges and triumphs, Iowa Ideas Conference, Cedar Rapids, IA, September 2017
- Panelist, economic development incentives and the future of economic development, Iowa Ideas Conference, Cedar Rapids, IA, September 2017
- Panelist, on the future of local foods in the U.S., discussion convened by the Wallace Center in New Orleans, LA October, 2016.
- Panelist, "Ethanol in America: Politics & Policy" discussion hosted by CQ Roll Call in Washington, D.C., March, 2016
- Panelist, "Iowa's Economic Outlook", discussion sponsored by the Business Record, West Des Moines, Iowa, January, 2016.
- Keynote speaker, Understanding Iowa's Economy, Iowa Planning Association annual meeting. Sioux City, IA, October, 2015
- Human Sciences Colleges, Association of Public Land Grant Universities: workshop on modeling college-level economic impacts. Washington, D.C. March 2014.
- Association of Public Land Grant Universities: Invited speaker and workshop facilitator on impact modeling for public universities. Washington, DC. May 2013.
- Keynote speaker on limits to local food production in the Midwest at the Small Farms Conference, Purdue University, March 2013
- Keynote speaker at extension annual professional development meeting: Exploring the Prospects for and the Practical Limits of Local Food Production Initiatives, October 2012
- AAEA (August 2012). Invited panel member at an after-conference workshop on developing procedures for measuring the impact of local food on regional and smaller area economies.
- Presentation to the Mid America Regulatory Conference on the limits to economic growth of existing energy alternatives. Des Moines, IA. June 2012
- Keynote speaker Indian Hills Conference – Cultivating Opportunities: The role and limits of local foods. March 2012

- Association of Public Land Grant Universities: Panel member and presenter on reforming university economic impact studies and procedures. San Francisco, CA. November 2011.
- Biomass 2011: The New Horizons of Bioenergy. Panel member and presentation on the national job creation potential from advanced cellulosic production. Washington, DC. July 2011.
- Woodrow Wilson International School for Scholars. Panel member and presentation on the limits to local foods job growth in the Midwest at the conference on Reviving the American Economy one Heirloom Tomato at a Time. Washington, DC. March 2011
- New York State Agriculture Society Annual Meeting, Syracuse, NY. Panel member and presentation on the limits to local foods job growth in the Midwest. January 2011
- Federal Reserve Bank of Chicago. Presentation on local foods economic impacts in the upper Midwest at the conference on The Intersection of Midwest Agriculture and Rural Development. Chicago, IL. November 2010
- University of Missouri, Harvest Public Media. Panel member and presentation on job growth associated with corn and cellulosic fuel production at the conference on Food, Fuel, and Society. Columbia, MO. October 2010
- Iowa Hospital Association, Coralville, IA. Keynote presentation on Iowa's Economy in a Difficult Period, June 2010.
- State of New York SUN Conference on Sustainable Fuels, Syracuse, NY. Panel member and presenter: Understanding the potential job gains from cellulosic ethanol production. Syracuse, NY. May 2010.
- Midwest Energy Symposium / University of Iowa Public Policy Center, Iowa City, IA. Presenter: Understanding the economic impacts of biofuels expansion in the Midwest. October 2009
- Midwestern Legislative Conference of the Council of State Governments, Kansas City, MO. Panel member and presenter: The economic impact potential of wind energy in the Midwest and Plains. August 2009.
- National Research Council Conference, Madison, WI. Panel member and presenter on limits to job growth in conventional biofuels production at the conference on Expanding Biofuels Production and the Transition to Advanced Biofuels. June 2009.
- Iowa League of Women Voters, Ottumwa, IA. Keynote presentation on issues and characteristics of Iowa's foreign born populations at their annual convention. June 2009.
- North Dakota Grain Dealers Association, Fargo, ND. Keynote presentation on the economic impacts of biofuels in the Midwest and in the Plains states. January 2009 (and 2008 and 2007)
- Tuskegee University, Tuskegee, AL. Presentation and panel member on the economic impacts of biofuels in Iowa and the U.S. August 2008.
- Minneapolis Federal Reserve Board of Advisors. Presentation on the economic impacts of biofuels in Iowa and the U.S. November 2007.
- Ohio State University Cooperative Extension, Columbus, OH. Panel member and presentation on the economic impacts of biofuels in Iowa and the U.S. October 2007.
- Midwestern Legislative Conference, Traverse City, MI. Panel member and presentation on the economic impacts of biofuels in Iowa and the U.S. August 2007.
- Council on Global Affairs, Chicago, IL. (2 visits). Presentation on small towns and rural places, January 2007; presentation on the economic impacts of biofuels in Iowa and the Midwest, February 2007
- Minneapolis Federal Reserve Small Business Committee. Presentation on the economic impacts of biofuels in Iowa and the U.S. January 2007.
- Council of State Governments, Anchorage, AK. Panel member and presentation on rural development issues in the Midwest. October 2006.
- Midwestern Legislative Conference, Des Moines, IA. Presentation on the Midwestern economy and its rural areas. July 2004.

Presentations on the state of the Iowa economy

Frequent presentations to service, business, community, and governmental groups and associations on the state's economy, rural and urban issues, key demographic changes, and labor force dynamics. When the recession became

well-entrenched in Iowa in late 2008, I made over 130 presentations on the condition of the state's economy and the prospects for recovery to state associations, regional groups, or communities over a three year span. Those presentations outlined the where, who, and why of economic change, to include a comparative analysis of Iowa's performance in this and past recessions, the consequences of recent demographic change for the state's growth prospects, and a discussion of sets of issues that will influence community and statewide growth in the next decade. With an enduring recovery still in evidence, presentations have also focused on the distinctions between rural and urban economic recovery. (Example association annual meetings include the Iowa YMCA, Iowa Area Development Group, Iowa Bankers Association, Iowa Credit Union League, Iowa Rural Insurance Agents Association, Iowa Community College Boards of Directors, Iowa Community College Business Officers, Iowa Association of Business and Industry, Iowa Health Care Association, Iowa Hospital Association, Siouxland Chamber of Commerce, Iowa Area Education Agency board members, Iowa Real Estate Appraisers, Iowa Technology Council, State of Iowa Transportation Task Force, plus presentations to over 75 separate communities or regional groups between 2008 and 2019).

Presentations on local foods prospects in Iowa

My Leopold Center for Sustainable Agriculture work on local foods impacts is nationally known and widely cited regarding the potential for and the limits to job growth associated with local foods development in Iowa and in the Midwest. This research is based on sets of "what-if" scenarios around the potential for local fruit, vegetable, and certain animal production. This research, which is primarily technical in nature, has received national attention and has been included in, for example, the recent USDA comprehensive investigation of local foods. (Local foods presentations include the New York Agricultural Society, The Woodrow Wilson International Center for Scholars, the Federal Reserve Bank of Chicago, National Value Added Food Conference, Tri-state Food Conference, Iowa State Association of Counties, the Wallace Foundation Annual Meeting, and the Midwest Food Researchers Roundtable). This research has also allowed collaborations with USDA AMS, Colorado State University, Michigan State University, and the Union of Concerned Scientists on projects promoting research and evaluation strategies for local foods policy and projects. This latter work has resulted in USDA AMS-funded training workshops in Michigan, North Carolina, and New Orleans. Instructional videos and accompanying curriculum support have also been developed from this work for Iowa State University Extension.

Presentations on Iowa's foreign born and minority populations

These outreach opportunities are based on ISU research and ongoing issues affecting Iowa's foreign born population groups. This research was begun in 2007, and continues to be in high demand requiring periodic updates. The presentation material includes a wide array of indicators, social and economic, that describe different elements of Iowa's foreign born residents. It increased awareness about exactly who our foreign born citizens are and how they contribute to the state's economy. (Presentation venues included the annual Mosaic Conference at ISU, Iowa League of Women Voters, Drake University minority studies seminars, Indian Hills Community College conference on diversity).

Selected direct consultation for state agencies and executives

- Assessment of the Secure an Advanced Vision for Education (SAVE) Fund, Iowa Association of School Boards. (2016)
- Conducted standards-based economic impact analysis of Iowa's public universities at the request of the Iowa Board of Regents, 2015.
- An evaluation of in-state linkages as a determinant for state contract awards for the Iowa Department of Administrative Services, 2012.
- Iowa Office of Energy Independence. Research and evaluation assistance, per recommendation by ISU President Geoffroy, on the economic impacts and the benefits and costs of OEI projects (2010 – 2011).
- Iowa General Assembly. The impacts of climate change on Iowa's economy, public services, and emergency services in collaboration with researchers from the University of Iowa, University of Northern Iowa, and Iowa State University. Findings presented to the Governor's office and the Iowa General Assembly, 2011.
- Rebuild Iowa Office. Technical assistance and comprehensive report on the economic impacts of the 2008 floods in Iowa (2009 through 2010).
- ISU Executive Vice President and Provost Elizabeth Hoffman. Ongoing assistance on developing appropriate protocols

for measuring university contributions to regional and state economies.

- Iowa DHS. Economic impact evaluation of the consequences of closing one of the state's four mental health facilities for the Iowa Department of Human Services (2010).
- Iowa Housing Authority. Conducted an evaluation of housing issues and concerns at the council of governments level. (2009).
- Iowa DED / HUD. Conducted the mandatory housing conditions research and evaluation for the state of Iowa's Five-Year Housing Plan (2009).
- Iowa Public Television. Briefing and seminar on the state economy and prospects for recovery for the IPT board of directors (2009, 2011)
- Governor of Iowa. Briefing to the Iowa Governor and his staff on the state of the Iowa economy and its fiscal prospects in the 2007 to 2009 recession (2008).
- Iowa DNR. Seminar for project managers at the DNR on how to measure the fiscal impacts of state program changes (2007).
- Iowa Department of Health. Seminar for health care planners on measuring the benefits and costs of public health programs (2007).

Selected recent economic development and technical assistance

Recent noteworthy projects done individually or in collaboration with other ISU staff or centers include:

- Economic Impact of Dairy Production and Processing in Iowa, 2019
- Analysis of the Effects of Chinese and Mexican Retaliatory Tariffs on Select U.S. Agricultural Commodities on U.S. and Global Markets, 2018.
- Job and income impact from reductions in the Corn, Soybean, and Ethanol Sectors of the Iowa Economy, 2018
- Economic Impact & Job Creation Relative to Large-Scale, High Voltage Transmission Infrastructure, 2018
- Economic impact of Iowa's cattle production and beef processing industries, 2017
- Economic impact of the Iowa State University Veterinary College Diagnostic Laboratory, 2017
- Measuring the economic impacts of commercial horticultural activities in Iowa, 2017
- An Assessment of the Secure an Advanced Vision for Education (SAVE) Fund, 2016
- Economic impact of a new hog slaughtering facility, 2016
- The economic impact of wind energy generation, 2015
- Economic impact of the avian flu epidemic, 2015
- Measuring the economic contributions of all Iowa Regents institutions including the University of Iowa Hospitals and Clinics
- Measuring the economic contribution of Iowa's Regents institutions, 2014.
- Economic impact of agriculture and agriculture-related manufacturing in Iowa, 2013.
- Economic impact consequences of federal government sequestration, 2013.
- Economic impact of the 2011 Missouri River flood on the Loess Hills Scenic Byway economy, 2013.
- Evaluating the economic impact of publicly funded higher education in Iowa, 2011.
- Economic impact of the Red Rock Hydroelectric addition, 2011.
- Ongoing and award-winning research and technical assistance in collaboration with CIRAS utilizing EDA funding to study regional industrial and workforce dynamics in support of regional industrial development (2004 to the present).
- Ongoing *ad hoc* research into the economic impacts of local foods development sponsored by the Leopold Center for Sustainable Agriculture (seven funded projects 2005 to the present).
- Economic impact of the Thomson Federal Prison on the City of Clinton, Iowa (2011).
- Economic impact of the Iowa Speedway to the city of Newton, Iowa, and the regional economy (2011).

- Economic impact of the Iowa State University Research Park (2010).
- Construction of a model for FEMA to measure and describe Cedar Rapids short term economic impacts associated with various infrastructure repair options after the Cedar Rapids flood.
- Economic impacts of stimulus fund spending in Iowa (2009 and 2010).
- Evaluation of the Cedar Rapids economy and technical assistance to assist flood recovery (2008, 2010).
- Comprehensive assessment of the economic impacts of the floods of 2008 in Iowa (2010).
- Technical assistance in support of sustainable – livable communities research at ISU (2008 and 2009).
- The economic impact of ISU and higher education in Iowa (1999, 2007, 2011).
- Technical assistance in support of Newton, Iowa’s, recovery from the Maytag closing (2007 and 2008).

Media and Public Affairs

I am a frequent contributor to local, state, and national media inquiries about Iowa’s economy, its fiscal situation, and labor force issues. Interviews with technical and research assistance to media outside of Iowa in recent years included Hear and Now (NPR), NBC Evening News, Detroit Public Television, The News Hour, Marketplace, Scientific American, National Public Radio, Public Radio International, Nevada Public Radio, Missouri Public Radio, St. Louis Public Radio, Harvest Public Media, NY Times, Wall Street Journal, Chicago Tribune, Reuters, AP, Bloomberg Financial, and the Minneapolis Tribune, as examples. Interviews within Iowa include central and eastern Iowa TV stations, Iowa Public Television, Iowa Public Radio, and most of Iowa’s newspapers or radio stations with statewide audiences.

I make frequent presentations about Iowa’s economy or issues facing the state to noon and breakfast groups such as the Lions, Rotary International, and the Optimists clubs across the state.

Skills/Expertise

Regional economic analysis and impact assessment using input-output modeling techniques and software, utilizing industrial social accounting matrices (SAMs) in combination with other econometric modeling systems for public policy development and evaluation; regional labor force analysis and model development; local and state government fiscal analysis and fiscal impacts; and development finance. Instructional skills in applied economic analysis to public projects and programs; input-output modeling; labor and fiscal impact model development; basic and intermediate statistics for policy analysis; public policy, governmental budgeting, and public finance; and development finance. Accomplished and widely-sought public speaker.

Awards/Honors/Current Prominent Service Affiliations

Co-recipient, Bruce Gardner Memorial Prize for Applied Policy Analysis, Agriculture & Applied Economics Association, 2019

Board of Directors, Sustainable Iowa Land Trust, 2016-2019.

Fellow, Center for Global and Regional Environmental Research, The University of Iowa 2014 to the present

2012 Award University Economic Development Association (UEDA), Excellence in Research and Analysis, EDA-UC Sustainable Economies Program, October 2012

2006 Award University Economic Development Association (UEDA), Excellence in Research and Analysis, EDA-UC Sustainable Economies Program, October 2006

Iowa State University Foundation Award for Outstanding Achievement in Extension or Professional Practice, 2002.

RUPRI/CPAN Outstanding Award for Modeling Innovation, 2000, Community Policy Analysis Network, North American Regional Science Association Meeting, Chicago, Illinois. October 2001.

Instruction

CRP 272 Planning Analysis and Techniques I. An introductory course to social science research methods and applications especially as they relate to planning roles and duties. (3 credits)

- CRP 273 Planning Analysis and Techniques II. An introduction to applied planning methods and procedures (3 credits).
- CRP 523 Economic Analysis, Evaluation, and the Financing of Public Projects. Intermediate to advanced applied economic evaluation and project efficiency methods for planners. (3 credits)
- CRP 566 Values and Decision Making. Principles and methods for analyzing communities and regions as social, political, economic, and ecological systems. (3 credits).
- URP 6290 (The University of Iowa). Economic Impact Analysis. Required course for U of I School of Urban and Regional Planning graduate students. An introduction to the elements of economic base measurements, input-output analysis, life-cycle evaluation, and benefit-costs analysis. (3 credits)
- C-DEV 532 IDEA / Great Plains. Community and Regional Economic Analysis II. A distance education course providing instruction in intermediate procedures for evaluating populations, labor forces, economies, and public projects. (3 credits).

Education

- M.A. University of Iowa, 1985. Urban and Regional Planning (Emphases: Applied Economics, Policy Analysis and Evaluation, and Research Methods)
- M.A. University of South Dakota, 1981. Political Science (Emphases: Theory, Evolution of Governing Systems, and Research Methods)
- B.S. University of South Dakota, 1979. Political Science and Criminal Justice Studies (Emphases: Public Administration and Planning)
- Bachelor of Rhymes. Cheyenne-Eagle Butte (SD) Kindergarten, 1961 (Emphases: ABCs, counting, singing, coloring, sharing, and small group activities)

Selected Papers, Reports, and Publications

Journal Articles:

- Economic Impact of University Veterinary Diagnostic Laboratories: A Case Study (with Lee Schulz, Dermot Hayes, and Derald Holtkamp). *Preventive Veterinary Medicine*, V. 151, March 2018 pp. 5-12.
- Will They Stay or Will They Go? Community Features Important in Migration Decisions of Recent University Graduates. (with Ann Marie Fiore, Linda S. Niehm, Jessica L. Hurst, Jihyeong Son, Amrut Sadachar, Daniel W. Russell, David Swenson, and Christopher Seeger). *Economic Development Quarterly*. 29:1 2015
- Devolution or Convolution? The Changing Relationship Between Federal, State and Local Governments, (with Steve Deller), *Journal of Regional Analysis & Policy*. 31:1, 2001.
- Regional Labor Markets: The Relationships Between Industry Level Employment and In-commuting in Pennsylvania Counties, (with Martin Shields). *Journal of Regional Analysis & Policy*. 30:2,2000
- The Iowa Economic/Fiscal Impact Modeling System. (with Dan Otto and Seth Meyer). *Journal of Regional Policy and Analysis*. 28.2 1999.
- Rural Housing Market Response to NonFarm Employment Growth: An Analysis of Housing Development Patterns. (with Dan Otto). *International Journal of Public Administration*, Fall 1996.

Book Chapters:

- Post-Farmgate Employment in the U.S., book chapter in Davidova, Sophia; Mishra, Ashok; and Thomson, Kenneth eds. *Rural Policies and Employment: Transatlantic Experiences*. World Scientific. 2019.
- A Review of the Economic Rewards and Risks of Ethanol Production, Chapter 3 in David Pimentel (ed), *Biofuels, Solar and Wind as Renewable Energy Systems*. Springer Science+Business Media B.V. 2008.
- The Iowa Economic and Fiscal Impact Modeling System, (with Dan Otto) book chapter in, Johnson & Otto, eds., *Community Impact Modeling*, Blackwell Publishing, Ames, IA. 2006.
- Software Development and Utilization, (with Martin Shields) book chapter in, Johnson & Otto, eds., *Community Impact Modeling*, Blackwell Publishing, Ames, IA. 2006.

Data Issues, (with Anna Cox) book chapter in, Johnson & Otto, eds., *Community Impact Modeling*, Blackwell Publishing, Ames, IA. 2006.

Selected Applied Research Reports:

Iowa Employment since the Great Recession. Department of Economics report. January, 2020.

Most of America's Rural Areas are Doomed to Decline. *The Conversation*. 7 May 2019.

Emerging Energy Investments Economic Impact Challenges: The Interconnections Seam Study as a Case Example. Paper prepared for and presented at the Southern Regional Science Association Annual Meeting in Washington, DC. March 2019.

The Economics of Recovery: Marshalltown, Iowa. Paper and supporting materials prepared in support of Iowa State University Sustainable Environments graduate program and research under a grant from the Design College.

Estimating the Economic Contribution of U.S. Agriculture. Paper prepared for the Omaha Office of the Kansas City Federal Reserve Bank, August 2019.

Economic Impact of the Wisconsin Veterinary Diagnostic Laboratory (with Keith Poulsen and Lee Schulz). Study and findings prepared for the Wisconsin Veterinary Diagnostic Laboratory, University of Wisconsin, October 2019.

Analysis of the Effects of Chinese and Mexican Retaliatory Tariffs on Select U.S. Agricultural Commodities on U.S. and Global Markets. (With Amani Elobeid, Miguel Carriquiry, and Dermot Hayes). November 2018.

The Impact of the 2018 Trade Disruptions on the Iowa Economy, with (Edward Balistreri, Chad Hart, Dermot Hayes, Minghao Li, Lee Schultz, Wendong Zhang, and John Crespi). October, 2018

Economic Impact & Job Creation Relative to Large-Scale, High Voltage Transmission Infrastructure. Paper prepared for and presented at the TransGrid-X-2030 Symposium, Ames, IA July 2018

An Introduction to Economic Impact Assessment of Local Foods: Part 2. Video and supporting curriculum for Iowa State University Extension, May 2018

An Introduction to Economic Impact Assessment of Local Foods: Part 1. Video and supporting curriculum for Iowa State University Extension, May 2018

Medicaid Expansion: Boost to the Economy. (with Peter Fisher). Iowa Fiscal Partnership. February 2018

Economic Importance of Iowa's Beef Industry (with Lee Schulz, Dan Loy, and Erika Lundy) Iowa Beef Center publication, Iowa State University, November 2017.

Evaluating the Higher-Level Skill Content of the Iowa Workforce and Its Competitiveness With the Rest of the Nation (with Liesl Eathington), Department of Economics, September 2017.

Economic Profile of Transportation Equipment Manufacturing in Iowa (with Liesl Eathington). CIRAS Publication, June, 2017.

Investigating Interstate Skill Exchanges Using Public Use Micro-Sample Data (with Liesl Eathington). Paper prepared for the MidContinent Regional Science Association Annual Meeting, Toledo, OH, June 2017.

Iowa Commercial Horticulture Survey Results, 2017 (with Arlene Enderton, Corry Bregendahl, and Leigh Adcock. Iowa State University Extension, May 2017.

Economic Contribution of the Iowa State University Veterinary Diagnostic Laboratory, (with Lee Schultz, Dermot Hayes, and Derald Holtkamp). Research prepared on behalf of the Iowa Veterinary Diagnostic Laboratory, January 2017.

Measuring the Area Economic Contribution of Des Moines Public Market Operations and its Client Businesses. Research conducted on behalf of the office of Economic Development and Industry Relations, December, 2016

REVISITING THE DEMOGRAPHIC AND ECONOMIC BASELINE FOR KEOKUK, IOWA, November, 2016. Research conducted on behalf of the Jackson Family Trust, November, 2016

An Assessment of the Secure an Advanced Vision for Education (SAVE) Fund: Fiscal 2009 – 2015, Department of Economics and Political Science research report, Iowa State University, September, 2016.

Multi-Year Capital Development Projects: Recent Insights From Oil Pipeline Impact Evaluations. Paper presented at the MidContinent Regional Science Association Annual Meeting, Charlotte, NC, June, 2016

Economic Profile of Food Processing Manufacturing in Iowa, (with Eathington, Liesl), Department of Economics, June, 2016.

The Economics of Local Food Systems: A Toolkit to Guide Community Discussions, Assessments and Choices, AMS, USDA. March 2016

The Economic Impact of Iowa's Major Industries in 2014, Department of Economics, Iowa State University, March 2016

ECONOMIC PROFILE OF FABRICATED METALS MANUFACTURING IN IOWA, (with Eathington, Liesl), Department of Economics, September 2015

Economic Impacts of Wind Energy Development in Iowa: Four Scenarios, Report prepared for the Iowa Environmental Council, July 2015

Avian Influenza Economic Impacts in Iowa, Department of Economics, Iowa State University, May 2015

The Regional Economic Impact of Camp Dodge, Department of Economics, Iowa State University, March 2015

The Economic Value of Iowa State University. Department of Economics Report, Iowa State University. January 2015

The Economic Value of The University of Iowa. Department of Economics Report, Iowa State University. January 2015

The Economic Value of the University of Northern Iowa. Department of Economics Report, Iowa State University. January 2015

The Economic Value of The University of Iowa Hospitals and Clinics. Department of Economics Report, Iowa State University. January 2015

Enhancing University Impact Studies Credibility of Analysis, Alternative Measures of University Worth, Association of Public and Land Grant Universities, December 2014.

The Economic Value of Iowa's Public Universities. Department of Economics Report, Iowa State University. October 2014.

Techniques for Modifying IMPLAN to Properly Evaluate University Regional Economic Contributions. Paper presented at the Mid America Regional Science Association, Madison, WI, June, 2014

Using Basic Input-Output Procedures to Project Occupational Demand and Occupational Multipliers. Paper presented at the Mid America Regional Science Association, Madison, WI, June, 2014

Using IMPLAN to Evaluate Public Universities' Regional Economic Impacts. Prepared for the Association of Public Land Grant Universities: Invited speaker and workshop facilitator on impact modeling for public universities. Washington, DC. May 2013.

The Economic Contribution Potential of Local Foods Production in Kane County, Illinois. Report prepared for the American Farmland Trust, Washington, D.C., May 2013.

Investigating Iowa's Industrial Vulnerability to Reductions in Water Resources, (with Liesl Eathington). Center for Industrial Research and Service report, Iowa State University. April 2013.

Misadventures in Regionalism: Reaffirming the Importance of Central Places in Regional Economic Development Assistance (with Liesl Eathington). Paper presented at the 2013 Annual Meeting of the Southern Regional Science Association, Washington, DC, April 2013.

Factors Constraining Iowa Labor Force Growth Through 2020. Department of Economics Staff Report, March 2013.

Agriculture and Agriculture-Related Manufacturing Economic Impacts in Iowa. Department of Economics Staff Report, March 2013.

Economic Impact Research Note: Potential Iowa Economic Impacts from Sequestration Based Federal Reductions, Department of Economics Staff Report, February 2013.

Anticipating Economic Impacts of the 2012 Drought. Department of Economics Staff Report, August 2012.

Tax increment Financing in Iowa: Background, Research, and Recommendations. Testimony before the Iowa House Ways and Means Subcommittee on Tax Increment Financing reform, February 27, 2012.

Iowa's Metropolitan County & Metropolitan City Economies in 2010, Department of Economics Staff Report, February 2012.

Estimating the Importance of the Ethanol Industry to the Iowa Economy in 2011, Department of Economics Staff Report, January 2012

Biobased Indicators: A Report to the U.S. Congress. (with L. Eathington, R. Cox, & J. Miranowski). Office of Energy Policy and New Uses, USDA, September 2011

Measuring University Contributions to Regional Economies: A Discussion of Guidelines for Enhancing Credibility. Department of Economics Staff Report, August 2011

The Regional Economic Impact of the Red Rock Hydroelectric Project, Department of Economics Study, Iowa State University, August 2011.

Exploring Small-Scale Meat Processing Expansions in Iowa. Leopold Center for Sustainable Agriculture, Iowa State University, May 2011

Measuring the Economic Impacts of Increased Fresh Fruit and Vegetable Production in Iowa Considering Metropolitan Demand. Leopold Center for Sustainable Agriculture, Iowa State University, May 2011.

An Exploration of Green Job Policies, Theoretical Underpinnings, Measurement Approaches, and Job Growth Expectations, (with David Peters and Liesl Eathington). White paper submitted to the USDA Office of Energy Policy and New Uses, April 2011. USDA publication.

Measuring the Total Economic Value of State-Funded Higher Education in Iowa. Department of Economics Staff Report, April 2011.

The Regional Economic Development Potential and Constraints to Local Foods Development in the Midwest. Paper presented at the Annual Meeting of the Southern Regional Science Association, March 2011. Also posted as a Department of Economics Staff Report, March 2011.

What Business Should Know About the Patient Protection and Affordable Care Act. Iowa Biz Magazine, February 2011. Also posted as a Department of Economics Staff Report, February 2011.

Climate Change Consequences for Iowa's Economy, Infrastructure, and Emergency Services. Report presented to the Governor of Iowa and the Iowa General Assembly, January 2011

Evaluating Direct and Indirect Economic Outcomes of the 2008 Iowa Weather-Related Disasters, (with Liesl Eathington), Department of Economics Staff Report, August 2010

Measuring Regional Energy Exposure and Impacts Using Input-Output Modeling Systems, (with Liesl Eathington), Department of Economics Staff Report, April 2010.

Selected Measures of the Economic Values of Increased Fruit and Vegetable Production and Consumption in the Upper Midwest, Leopold Center for Sustainable Agriculture, Iowa State University, April 2010.

The Economic Impact of Fruit and Vegetable Production in Southwest Iowa Considering Local and Nearby Metropolitan Markets, February 2010

Selected Measures of Iowa's Research and Development Performance, (with Liesl Eathington), Department of Economics Staff Report, January 2010

Iowa Housing Needs Assessment: Key Issues and Indicators, (with Amy Logan), Report prepared for the Iowa Finance Authority, December 2009

Understanding and Misunderstanding Retail Multipliers, Department of Economics Staff Report, December 2009

Iowa Mental Health Facility Economic, Fiscal, and Community Impact Analysis, (with Liesl Eathington). Department of Economics Staff Report. December 2009

State of Iowa Housing Data and Analysis, (with Liesl Eathington and Meghan O'Brian). Report to the Iowa Department of Economic Development and the U.S. Department of Housing and Urban Development, November 2009

Investigating the Potential Economic Impacts of Local Foods for Southeast Iowa, Leopold Center for Sustainable Agriculture. August 2009

Misunderstanding Economic Stimulus Multipliers, Department of Economics Staff Report. March 2009

The Federal Stimulus Plan and Sustaining Jobs in the Iowa Economy, Department of Economics Staff Report. March 2009

Characteristics of Home Mortgage Lending to Racial or Ethnic Groups in Iowa, (with Liesl Eathington). Department of Economics Staff Report, September 2008

Neighborhood Diversity Characteristics in Iowa and Their Implications for Home Loans and Business Investment, (with Liesl Eathington), Department of Economics Staff Report, September 2008

Minorities in Business: A Selected Overview of U.S. And Iowa Surveys of Business Owners, (with Liesl Eathington), Department of Economics Staff Report, September 2008

Selected Characteristics of Black and Hispanic Iowans: Analysis of Public-Use Micro-Sample Data from the 2006 American Community Survey, (with Liesl Eathington), Department of Economics Staff Report, September 2008

Iowa's Minority Participants in the Economy: Analysis of Public-Use Micro-Sample Data from the 2006 American Community Survey, (with Liesl Eathington), Department of Economics Staff Report, September 2008

Iowa's Native-Born and Foreign-Born Participants in the Economy: Analysis of Public-Use Micro-Sample Data from the 2006 American Community Survey, (with Liesl Eathington), Department of Economics Staff Report, September 2008

How Well Does the Price of Unleaded Gasoline Predict the Price of Ethanol?, Department of Economics Staff Report, August 2008

Summary of 2000-2007 Population Changes in Iowa's Cities, (with Liesl Eathington), Department of Economics Staff Report, July 2008

Economic Impacts of the 2008 Floods in Iowa, (with Liesl Eathington and Meghan O'Brien), Department of Economics Staff Report, June 2008

An Evaluation of the Cedar Rapids / Linn County Economy, (with Liesl Eathington), Department of Economics Staff Report, July 2008.

Estimating the Production and Market Value-Based Impacts of Nutritional Goals in NE Iowa, Leopold Center for Sustainable Agriculture, April 2008

The Economic Impact of the Iowa Caucus: Gauging the Worth of Its First-in-the-Nation Position? Department of Economics Staff Report. April 2008.

Estimating the Future Economic Impact of Corn Ethanol Production in the U.S. Department of Economics Staff Report. December 2007.

The Economic Impacts of Iowa State University in Fiscal 2006. (with Liesl Eathington). Department of Economics Staff Report. November 2007.

Recent Trade Shifts in the Des Moines / West Des Moines Metropolitan Region. (with Liesl Eathington). Department of Economics Staff Report. May 2007.

Dude, Where's My Corn? Constraints on the Location of Ethanol Production in the Corn Belt. (with Liesl Eathington). Department of Economics Staff Report. April 2007.

Understanding Biofuels Economic Impact Claims Biofueling Economic Growth in Iowa. Small Farmers Journal, Spring, 2007.

Determining the Methods for Measuring the Economic and Fiscal Impacts Associated with Organic Crop Conversion in Iowa. (with Liesl Eathington) Leopold Center, Iowa State University. March, 2007.

The Economic Impact of the Insurance Industry on Iowa. (with Liesl Eathington). Department of Economics Staff Report, Iowa State University, February, 2007.

Determining the Regional Economic Values of Ethanol Production in Iowa Considering Different Levels of Local Investment, Bioeconomy Working Group, College of Agriculture, September 2006.

Input-Outrageous: The Economic Impacts of Modern Biofuels Production. Paper presented at the biennial IMPLAN Users Conference, Indianapolis, Indiana, June, 2006.

Tax Increment Financing Growth in Iowa. (with Liesl Eathington) Department of Economics, Iowa State University, March 2006.

The Economic Impacts of Increased Fruit and Vegetable Production in Iowa, prepared for the Regional Food Systems Working Group, Leopold Center for Sustainable Agriculture, December, 2005.

Rural Jobs, Rural People, and Rural Pay in the North Central Region. (with Liesl Eathington) NCR Policy Brief, Spring 2004.

A Modern Economic Development Romance: Courting the Creative Worker. (with Liesl Eathington). Paper presented to the annual meeting of the Southern Regional Science Association, March 2004.

The Iowa Regional Economic Atlas. (with Liesl Eathington) Department of Economics, Iowa State University, March 2003.

The Creative Economy in Iowa. (with Liesl Eathington). Iowa Department of Cultural Affairs, February 2003.

Multiple Measures of the Role of Agriculture in Iowa's Economy. (with Liesl Eathington) Department of Economics, Iowa State University, February, 2003.

Do Tax Increment Finance Districts Spur Growth or Squander Public Resources? Paper presented to the annual meeting of the Southern Regional Science Association, April, 2002. Department of Economics Staff Paper, ISU.

An Introduction to Economic Impact Assessment. Department of Economics, Iowa State University, October 2001/February 2002.

Profiles: USDA Direct Payments and Grants in the United States, Fiscal & Year 2000. (with Liesl Eathington). Department of Economics Staff Paper, 2001.

Profiles: Government Farm Payments and Other Government Transfer Payments in the United States. (with Liesl Eathington) Department of Economics Staff Paper, 2001.

The Economic Value of Veterinary Services in Iowa and Associated Demographic Shifts (with D. Draper & R. Ross). Submitted to the Journal of the American Veterinary Medicine Association

Rural Retail Woes: Does Wal-Mart Really Matter? (with Liesl Eathington) Paper presented at the 2001 Annual meeting of the Southern Regional Science Association, Austin, TX. Department of Economics Staff Paper, April 2001.

Employment Growth in Iowa's Agricultural Commodity Processing Industries. (With Liesl Eathington). Department of Economics Staff Paper, 2000.

Employment Growth in Iowa's Targeted Industries, 1992-97. (with Liesl Eathington). Department of Economics Staff Paper, 2000.

Nonfarm Employment Change in Iowa from 1987 to 1997. (with Liesl Eathington). Department of Economic Staff Paper, 2000.

U.S. Nonfarm Job and Population Changes and Community Models: Rethinking the Jobs-to-Labor Force-to-Population Relationships. Paper presented at the 2000 Southern Regional Science Association, Miami, FL.

Federal Aid to State Governments and its Impact on State Revenues and State Spending: Devolution or Convolution? Paper presented to the 1999 meeting of the Southern Regional Science Association, Richmond, VA.

A Manual for Community and Fiscal Impact Modeling Systems: Practical Techniques for Building and Applying Community Models. (with Liesl Eathington). Department of Economics, Iowa State University, October, 1998.

Economic Growth, Valuation Change, and Infrastructure Requirements. (with Liesl Eathington & Dan Otto). Published proceedings of the Midwest Transportation Symposium, 1998.

The Efficacy of Housing Tax Abatements on Housing Starts. (with Liesl Eathington). Paper presented to the Southern Regional Science Association annual meeting, Savannah, GA, April 1998.

Linked Economic Impact, Labor Force Allocation, and Housing Development Models: Applications for Analyzing Housing Change in Rural and Urban Areas. (with Liesl Eathington). Paper presented to the Southern Regional Science Association annual meeting, Baltimore, MD, April 1997.

A Technical Report on Issues Associated with Determining Value-Added and the Economic Impacts of Recycling Industries in the United States. Prepared for the Northeast Recycling Council and the Council of State Governments, October 1997.

The Economics of Change in Iowa. Iowa Rural Development Quarterly, Winter 1996.

Measuring the Fiscal Impacts of Local Economic Growth. Iowa Rural Development Quarterly, Summer 1995

Manufacturing Employment Boom Benefits Iowa's Nonmetropolitan Counties. Iowa Rural Development Quarterly, Spring 1995.

Assessed and Taxable Valuation Change, Fiscal 1989-1995: Spatial and Categorical Shifts in Capital Wealth and Property Tax Capacity in Iowa. (with Garry Pshonik). Rural Development Initiative, Iowa State University, March 1996.

Analysis of Spatial Residential and Employment Patterns and the Consequences for Housing. Paper presented at the 1995 meeting of the Southern Regional Science Association, San Antonio, TX.

Rural-Urban Economic Linkages: Rural Policy Research Institute Methodology (with Glenn Nelson and Daniel Otto). Paper presented at the Annual Meeting of the American Agricultural Economics Association, August 1994.

A Comparison of Nonmetropolitan County Classification Methods and Their Sensitivities to Socioeconomic Factors. Paper prepared in support of the 1994 RUPRI Rural Baseline Review, Rural Policy Research Institute, University of Missouri, August 1994.

1994 RUPRI Rural Baseline Review, in collaboration with the Rural Policy Research Institute, University of Missouri, June

1994.

Levels of Urbanization and Spatial Patterns as Indicators of Socio-Economic Change in Iowa. Iowa State University, June 1994.

Commuting Patterns in the Greater Des Moines Area: A Demonstration of Regional Economic Interdependence. Iowa State University, June 1994.

The Economic Implications of Alternatives to Agricultural Drainage Wells in Iowa. Iowa State University, October 1993.

Telecommunications and Economic Development in Iowa. Iowa Department of Economic Development/U.S. Economic Development Administration, July 1993.

State of the Cities 1992 Survey. League of Iowa Municipalities, September 1992.

Iowa Government Finances and Trends. Iowa Policy and Planning Data Project, Iowa State University, June 1992.

The Iowa Public Policy Issues Agenda Survey. (with Mark Edelman) Public Policy Education Project Report, Iowa State University, September 1991.

Iowa Health Care Policy Preferences. (with Mark Edelman) Public Policy Education Project Report, Iowa State University, April 1991.

Iowa Waste Management Public Policy. (with Mark Edelman) Public Policy Education Project Report, Iowa State University, February 1991.

The Iowa Public Opinion Survey on Drug, Alcohol and Substance Abuse. (with Mark Edelman) Public Policy Education Project Report, Iowa State University, August 1990.

The Welfare System and Barriers to Employment in Iowa (A Report to the Iowa Business Council: with T. Pogue, P. Fisher, and M. Tracy). Public Policy Center, The University of Iowa, October 1988.

A Decade of Adjustment: Economic, Social, and Political Forces Influencing Iowa Government Policy in the 1980s. Institute of Public Affairs, The University of Iowa, February 1988.

Infrastructure and Community-Economic Development Options, Programs, and Assistance: A Primer for Iowa Local Governments. Institute of Public Affairs, The University of Iowa, January 1987.

Standardized Measures of Municipal Property Tax Dependency. Institute of Public Affairs, The University of Iowa, June 1986.

Iowa Property Taxes. Institute of Public Affairs, The University of Iowa, December 1985.

Iowa Government Series Reports, Various Topics, Institute of Public Affairs, 1985 - 1988.