

CURRICULUM VITAE

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Washington State University
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EDUCATION

Ph.D. 2012 (Expected), Interdisciplinary - Washington State University (WSU)

Fields: Agricultural Economics, Geography, Rural and Community Sociology

Dissertation: "A Geographic Exploration of the Social and Economic Sustainability of Farmers' Markets and the Rural Communities that Make Them Work"

M.S. 2005, Human Dimensions of Ecosystem Science and Management - Utah State University (USU)

Thesis: "Economic Analysis of Reproductive Inhibition to Control White-Tailed Deer Damage"

B.S. 2003, Zoology (Ecology Emphasis) - WSU

AREAS OF INTEREST AND SPECIALIZATION

Economic Geography; Alternative Food Networks; Spatial Econometrics, Analysis, and Statistics, Industrial Organization; Sociology of Agriculture and Food Systems

PROFESSIONAL ACADEMIC POSITIONS

2008-present WSU: School of Economic Sciences Pullman, WA
Title: Research Assistant
(Ken Casavant; Eric Jessup; Vicki McCracken)

- Conducted a transportation access study to evaluate the degree to which transportation access influences current enrollment of community and technical college students.
- Co-Created a spatial model to facilitate detailed investigation of the transportation and logistical aspects of moving biofuel feedstock from production areas to proposed processing facilities.
- Developed means by which Supermarket locations may be compared to that of Farmers' Markets such that distributional inequalities may be understood.
- Conducted Food Desert Assessment of Washington State.
- Contributed to the methodological development of the Washington State Freight Mobility Plan and creation of freight specific Benefit-Cost Analysis.

Summer 2010 WSU: Department of Sociology Pullman, WA
Title: Researcher, (Tom Rotolo)

- Enabled a spatial evaluation of volunteerism throughout the US to be considered.

2003–2005 USU: Environment and Society Logan, UT
Title: Research Assistant, (Nicole McCoy)

- Conducted cost-effectiveness analysis to consider strategies to reduce wildlife damage.

PROFESSIONAL NON-ACADEMIC POSITIONS

2007-2008 Latah County: Planning and Building Moscow, ID
Title: GIS Coordinator

2007 Port Townsend Paper Co. Port Townsend, WA
Title: Environmental Technician

2004-2007 Point No Point Treaty Council Kingston, WA
Title: Wildlife Management Biologist

1996-1999 US Navy United States
Title: (EM3/SS) Nuclear Field Electrician's Mate (Submarines)

TEACHING EXPERIENCE

- 2011** WSU: School of Economic Sciences Pullman, WA
Teaching Assistant (Volunteer)
Title: Advanced Food Economics and Marketing
- Developed and delivered lectures on spatial demand, von Thunen models, Location-rent curves and transportation economics. Contributed to the development of course exams. Facilitated lab work and discussion in relation to the students econometric model projects.
- 2011** WSU: Extension Pullman, WA
Teaching Assistant
Title: Agricultural Entrepreneurship
- Assisted in delivery of extension course to onsite and distance students; Aided in providing feedback to students (current and aspiring farmers) developing business plans.
- 2011** University of Idaho: Department of Geography Moscow, ID
Invited Guest Lecturer (to be delivered Fall 2011)
Title: Economic Geography
- Invited to deliver lectures related to von-Thunen models, Location-Rent relationships in agricultural production.

CONFERENCE PRESENTATIONS

- Sage, J.L.** and McCracken, V. 2011. Watering the Food Deserts: Do Farmers' Markets Increase Access to Healthy Food or Reproduce the Same Old Logic? 74th Annual Meeting of the Rural Sociological Society, July 28th -31st.
- Sage, J.L.**, Sage, R.A., and McCracken, V. 2011. Bringing Home the Food: How Rural Communities are Regaining Access to 'Good Food'. Agriculture, Food and Human Values Society Conference, June 9th -12th.
- McCracken, V., **Sage, J.L.**, Sage, R.A. 2011. Bridging the Gap: Do Farmers' Markets Help Alleviate Food Deserts? IRP RIDGE Center for National Food and Nutrition Assistance Research: Small Grant Workshop, April 25th.
- Sage, J.L.** 2011. Geographic Variability in Who Participates in Alternative Food Networks. Pacific Sociological Association, March 10th-13th.

- Sage, J.L.** 2011. Farmers' Markets: Rationale of the Periodic Market Revisited. American Association of Geographers Annual Meeting, April 12th-16th.
- Sage, J.L.** 2010. A Spatially Explicit Examination of the Affects of Organic Producers' Justifications on Willingness to Direct Market to Consumers. 73rd Annual Meeting of the Rural Sociological Society, August 12th – 15th.
- Sage, J.L.** 2010. CSA Market Power: Implications of Spatial Isolation and Non Pecuniary Producer Motivations. Local Foods Workshop of the Northeastern Agricultural and Resource Economics Association Annual Conference, June 15th-16th.
- Sage, J.L.** 2010. When All Miles Are Not the Same: Spatial Non-Stationarity Impacts of Educational Travel Time Requirements. IVth World Conference of the Spatial Econometrics Association, June 9th - 12th.
- Sage, J.L.** 2010. Spatial Non-Stationarity of Educational Travel Time Impacts: An Application of Geographically Weighted Regression. 44th Pacific Northwest Regional Economic Conference, May 20th -21st.
- Sage, J.L.** and Jessup, E.J. 2009. Educational Access: A Geography of Opportunity for the Community Colleges of Washington. 56th Annual North American Meetings of the Regional Science Association International , November 19th - 21st.
- Sage, J.L.** 2006. When Big Wildlife and New Development Butt Heads. Invited Panel Presenter. Peninsula Chapter of the American Planning Association, May 1st.

PROFESSIONAL REPORTS AND OTHER PUBLICATIONS

- McCracken, V.A., **Sage, J.L.**, Sage, R.A. 2011. Bridging the Gap: Do Farmers' Markets Help Alleviate Food Deserts? Interim Report Submitted to Institute for Research on Poverty/RIDGE, University of Wisconsin, Madison, WI.
- Sage, J.L.** 2011. Family Farms: Survival and Prospect – By Harold Brookfield and Helen Parsons. *Rural Sociology*, 76: 287–289.
- Sage, J.L.** 2010. WSU Research: Accessible Education Via Accessible Public Transportation. *Transportation Northwest Newsletter*, XXII (3).
http://www.transnow.org/files/newsletters/TN_Spring-Summer_2010-2.pdf
- Jessup, E.J., **Sage, J.L.** 2009. Washington State Community and Technical Colleges Transportation Access Study. Report Submitted to the Washington State Board for Community and Technical Colleges. Olympia, WA. September 2009.

Sage, J.L. 2005. Opportunities for the Advancement of Habitat Friendly Farming on the Greater Skagit Delta. Report Submitted to the Greater Skagit Delta Initiative. Mt. Vernon, WA.

McCoy, N., **Sage, J.L.**, Bower, B. 2003. Economic Analysis of Reproductive Inhibition for Nuisance Wildlife. Report Submitted to USDA Wildlife Services. Fort Collins, CO.

WORKING PAPERS

Sage, J.L., Casavant, K., 2011. Washington Transportation Plan Update: Freight Movement, Washington State Department of Transportation, Freight Systems Division.

Khachatryan, H., **Sage, J.L.**, Jessup, E. 2011 (March). FPTI Working Paper #1. Transportation and logistics for biofuel feedstock.

Sage, J.L. CSA Market Power: Implications of Spatial Isolation and Non Pecuniary Producer Motivations.

Sage, J.L., Goldberger, J., Decisions to Direct Market: Geographic Influences on Conventions in Organic Production. Submitted to *Applied Geography* on 7/06/2011. Revise and Resubmit Received 8/08/2011.

McCracken, V., **Sage, J.L.**, Sage, R.A., Bridging the gap: do farmers' markets help alleviate the impacts of food deserts?

Sage, J.L., Jessup, E.J. When all miles are not the same: spatial non-stationarity impacts of educational travel time requirements.

GRANTS AND OTHER FUNDING

<u>Principal Investigators</u>	<u>Title</u>	<u>Agency</u>	<u>Amount</u>
Sage, J. , Casavant, K. (2011)	Washington Transportation Plan Update Freight Movement	WSDOT	\$20,000.00
Sage, J. (2011)	Graduate Student Travel Grant	WSU GPSA	\$450.00
McCracken, V., Sage, J. , Sage, R. (2010)	Bridging the gap: do farmers' markets help alleviate food deserts?	IRP/RIDGE	\$38,363.00

Harder, R., Sage, J. (2006)	Home Range and Herd Composition Evaluation of Roosevelt Elk in the Dosewallips Drainage in Support of Treaty Hunting Rights	BIA	\$41,122.00
Harder, R., Sage, J. (2005)	Elk Home Range and Herd Composition Evaluation in the Eastern Olympic Peninsula in Support of Treaty Hunting Rights	BIA	\$39,204.00
Harder, R., Sage, J. (2005)	Legal and Policy Support for the Co-Management of the Dungeness Elk Herd	BIA	\$40,595.00

PROFESSIONAL DEVELOPMENT

- 2008 Powering Your GeoDatabase and ModelBuilder for Management/Analysis,
By Bruce Kessler, KesslerGIS.
- 2010 Workshop on *Case Writing and Presentation*, Northwest Agribusiness
Executive Seminar, by Dr. Chester McCorkle, Agricultural Economics and
Management, UC Davis.
- 2011 Workshop on *Teaching and Writing Native Case Studies*, Enduring
Legacies Native Cases, by The Evergreen State College.

COMPUTER SKILLS

Statistical Programs: STATA, R, GAUSS, SHAZAM
Spatial Programs: ArcGIS, GeoDa, GWR3, R, CrimeStat

PROFESSIONAL MEMBERSHIPS

- Association of American Geographers
- Pacific Sociological Association
- Rural Sociological Society
- Agriculture Food and Human Values Society

DISSERTATION ABSTRACTS

1- *Decisions to Direct Market: Geographic Influences on Conventions in Organic Production*

Substantial academic interest over the last two decades has focused on the notion of bifurcation within organic agriculture; however, recent examinations of the organic industry have revealed the inability of this dualistic assumption to fully account for the spectrum of variation in production schemes. Using data from a 2007 survey of certified organic producers, this paper seeks to empirically demonstrate the effects of producers' 'worlds of justification' on willingness to participate in direct-to-consumer markets. Nearly sixty percent of respondents participated in at least one form of direct-to-consumer marketing. This paper tests whether justifications are influenced by the existing spatial relationships that define the producers' structural connections with agriculture as well as their proximity to viable direct markets. We assess not only the impacts of producers' justifications on market delivery mechanisms, but also the variation of impacts across space. Employing a Geographically Weighted Regression (GWR) model, this paper moves beyond the constraints of global regression models that hold relationships constant throughout the study area. GWR thus allows for the accounting of spatial non-stationarity of producer characteristics that would be expected in an agriculturally diverse region.

2- *Farmers Markets: Rationale of the Periodic Market Revisited*

The mid-20th century saw significant interest from economic geographers in the periodic peasant market place; however, that interest waned as it mostly gave way to developed countries and their spatially fixed retail outlets. This paper revisits the previously developed rationale for market placement under a new lens; one intertwined in the developed world and its fixed retail. This new lens is placed on farmers markets. As a leader in the re-localization movement, Washington State has over 170 farmers markets, with nearly a third concentrated in the greater Seattle area. This paper explores the contemporary rationale by market managers and local food advocates in regards to where to establish markets and when to operate them. Previous research has documented the restructuring effects as local grocery stores that once served small communities are replaced by larger, regional, chain stores at further distances from these communities. This research utilizes the line of reasoning that has extended from the original central place hierarchies developed by Walter Christaller; the number-average-size (NAS) rule. Central to this questioning is a determination of whether the 'center' level that can sustain a grocery store is climbing, thus placing increasing proportions of the population in disadvantaged positions of limited access to healthy and affordable food. Further, this research extends the conceptualization to the quickly growing farmers market system that often portrays itself as an alternative ethic to the globalizing food system in an effort to examine whether the discourse of local matches the on the ground actions taking place, or whether farmers markets are following the same location decision strategies as the conventional food distribution channels they try

to separate themselves from. Early results begin to suggest that the retail food system leaves multiple areas of both urban and rural Washington in effective food deserts and farmers markets have a strong tendency of to be located close to those outlets.

3- *If you build it, will they come?: Assessing accessibility influences on low income participation in farmers markets.*

Pressures of the globalized food system have left many communities and individuals in precarious situations in which nutritious and accessible food is not a given; research has begun to suggest that re-localization efforts will not inherently alleviate these trends without directed efforts to produce exchanges that enhance both food and farm security. Through an extension of the conventional visualization of 'food deserts', this paper expands the concept to include farmers market accessibility. This expansion allows for a better understanding of the challenges that exist for such markets, given their constrained spatial characteristics. Such knowledge can be used to improve the effectiveness and efficiency of delivery of federal food assistance programs through local food channels. This paper accomplishes these goals by operationalizing 'food deserts' in the state of Washington and identifying the effects of the location of WIC and SNAP participating farmers markets in relation to their clientele on redemption rates and ultimately the ability of these programs and farmers markets to combat food insecurity.