

# Alexander J. Kappes

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<b>Education</b>	<p><b>Ph.D.</b>, Economics, (expected) May 2021, Washington State University. Fields: Agricultural Economics, Econometrics. Dissertation: <i>insert dissertation title here</i> . Co-advisors: Dr. Thomas L. Marsh, Dr. J. Shannon Neibergs</p> <p><b>M.S.</b>, Statistics, (expected) May 2021, Washington State University. Master's Research Project: <i>Bayesian Modeling Techniques for Ordinal Longitudinal Data</i>. Advisor: Dr. Nairanjana Dasgupta</p> <p><b>M.S.</b>, Economics, December 2017, Washington State University. Master's Research Project: <i>An Evaluation of Alfalfa Price-Quality Relationships for Making Informed Production and Marketing Decisions</i>. Advisor: Dr. J. Shannon Neibergs</p> <p><b>B.A.</b>, Business Administration - Economics and Finance, May 2016, Saint Martin's University. Summa Cum laude.</p>
<b>Research Interests</b>	Livestock Health and Production, Global Health and Development, Technology Adoption and Innovation for Sustainable Agriculture, Natural Resource and Environmental Economics, Applied Statistical Learning
<b>Publications</b>	Kappes, Alex J., Neibergs, J. Shannon. <i>Washington State Livestock Identification: Changes to Current Laws and the Future of Traceability</i> . Washington Agribusiness Status and Outlook. January 2020.
<b>Work Under Review</b>	Kappes, Alex J., Marsh, Thomas L. <i>Livestock Health Effects on Cost of Nutrient Consumption in Western Kenya</i> . Frontiers in Veterinary Sciences.
<b>Working Papers</b>	<p>Kappes, Alex J., Marsh, Thomas L. <i>Technical Efficiency of Food Intake Frequency on Childhood Stunting in Western Kenya</i>.</p> <p>Kappes, Alex J., Marsh, Thomas L. <i>Western Kenyan Household Macronutrient Demand</i>.</p> <p>Kappes, Alex J., Neibergs, J. Shannon. <i>Using Genetic Marker Selection to Reduce Asymmetric Information in the U.S. Beef Supply Chain</i>.</p>

Kappes, Alex J., Neibergs, J. Shannon. *Surveillance of Feedlot Bovine Respiratory Disease with Genetic Marker Selection Implications*.  
Kappes, Alex J. *Expectation-Maximization Extension to Bayesian Regression Tree Treatment Effect Estimation*.

**Work In  
Progress**

Kappes, Alex J., Neibergs, J. Shannon. *Producer Benefits of Dairy Nutrient Waste Recycling Technology Adoption*. Web application development.  
[https://github.com/AJKappes/NWR\\_app](https://github.com/AJKappes/NWR_app)

**Research  
Experience**

Graduate Research Assistant - Agricultural Economics  
Fall 2016 to present.  
School of Economic Sciences, Washington State University.  
Dr. J. Shannon Neibergs

Graduate Research Assistant - Global Health and Development  
Fall 2017 to present.  
School of Economic Sciences, Washington State University.  
Dr. Thomas L. Marsh

**Teaching  
Experience**

Data Carpentry Workshop Intro to R and Starting with Data in R Instructor. Washington State University, 10 October 2019.  
<https://datacarpentry.org>

Instructor, EconS 101 Fundamentals of Microeconomics. Summer 2019.  
School of Economic Sciences, Washington State University.

Software Carpentry Workshop Git Instructor. Washington State University, 8-9 April 2019. <https://software-carpentry.org>

**Presentations**

*Using Genetic Marker Selection to Reduce Asymmetric Information in the U.S. Beef Supply Chain*. 2019 ISESSAH Annual Meeting. Atlanta, GA. Selected Presentation.

*Technical Efficiency of Food Intake Frequency on Childhood Stunting in Western Kenya*. 2019 AAEE Annual Meeting. Atlanta, GA. Selected presentation.

*Livestock Health Effects on Cost of Nutrient Consumption in Western Kenya*. 2019 ISESSAH Annual Meeting. Atlanta, GA. Poster.

*Using Genetic Marker Selection to Reduce Asymmetric Information in the U.S. Beef Supply Chain*. University of Idaho Agricultural Economics and Rural Sociology, April 2019. Seminar series.

*An Evaluation of Alfalfa Price-Quality Relationships for Making Informed Production and Marketing Decisions.* 2017 WAEA/WEC Annual Meeting. Lake Tahoe, NV. Selected presentation.

**Professional Service**

Planning Committee member - Extension Risk Management Education National Conference. Denver, CO. 1-2 April 2020.

Software Carpentry Workshop R and Python Helper. Washington State University. 8-9 April 2019. <https://software-carpentry.org>

Edited Arredondo-Espinola, A., Muñoz-Garcia, F., *Intermediate Microeconomic Theory: Tools and Step-by-Step Examples*, Chapter 16 Contract Theory and Chapter 17 Externalities and Public Goods (content, problems, and solutions), MIT Press, 2019.

**Professional Affiliations**

Agricultural and Applied Economics Association (AAEA), Western Agricultural Economics Association (WAEA). International Society for Economics and Social Sciences of Animal Health (ISESSAH)

**Skills**

Technical: Python, R, L<sup>A</sup>T<sub>E</sub>X  
Econometric/data science: Maximum likelihood to generalized method of moments and generalized linear model estimation, Bayesian modeling, classification and clustering, linear programming, panel data analysis

**References**

**Dr. Thomas L. Marsh**  
(Committee Co-chair)  
Professor  
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**Dr. J. Shannon Neibergs**  
(Committee Co-chair)  
Professor, Director, WEC  
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