

## Alexander J. Kappes

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<b>Positions</b>	Postdoctoral researcher, Washington State University, the Gates Foundation, and the Worth Organization for Animal Health May 2021 - Present
<b>Education</b>	<p><b>Ph.D.</b>, Economics, May 2021, Washington State University. Fields: Econometrics, Agricultural Economics. Dissertation: <i>The Economics of Livestock Health, Disease, and Production</i> Co-advisors: Dr. J. Shannon Neibergs and Dr. Thomas L. Marsh</p> <p><b>M.S.</b>, Statistics, May 2021, Washington State University. Master's Research Project: <i>Bayesian Modeling Technique for Variable Selection in Ordinal Response 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>	Applied Statistical Learning, One Health and Development, Technology Adoption, Innovation, and Sustainability.
<b>Publications</b>	<p>Kappes, Alex J., Marsh, Thomas L. (2020) <i>Livestock Health Effects on Cost of Nutrient Consumption in Western Kenya</i>. Front. Vet. Sci. 7:547348. doi: 10.3389/fvets.2020.547348.</p> <p>Kappes, Alex J., Neibergs, J. Shannon. (2020) <i>Washington State Livestock Identification: Changes to Current Laws and the Future of Traceability</i>. Washington Agribusiness Status and Outlook.</p>
<b>Work Under Review</b>	<p>Kappes, Alex J., Marsh, Thomas L. <i>Technical Efficiency of Food Intake Frequency on Childhood Stunting in Western Kenya</i>. Food Policy.</p> <p>Kappes, Alex J., Neibergs, J. Shannon. <i>Wealth and Environmental Incentives for Anaerobic Digester Technology in Dairies</i>. American Journal of Agricultural Economics.</p>

<b>Working Papers</b>	Kappes, Alex J., Neibergs, J. Shannon. <i>Using Genetic Marker Selection to Reduce Asymmetric Information in the U.S. Beef Supply Chain.</i>
	Kappes, Alex J., Marsh, Thomas L. <i>An Evaluation of Livestock Health Impacts on Production Inefficiency in Rural Kenya.</i>
	Kappes, Alex J., Neibergs, J. Shannon. <i>Surveillance of Feedlot Bovine Respiratory Disease with Genetic Marker Selection Implications.</i>
	Kappes, Alex J., Wang, Yuan. <i>Bayesian Modeling Technique for Variable Selection in Ordinal Response Data.</i>
	Kappes, Alex J. <i>Expectation-Maximization Extension to Bayesian Regression Tree Treatment Effect Estimation.</i>
<b>Work In Progress</b>	Kappes, Alex J., Neibergs, J. Shannon. <i>Producer Benefits of Dairy Nutrient Waste Recycling Technology Adoption.</i> Web application development. <a href="https://github.com/AJKappes/NWR_app">https://github.com/AJKappes/NWR_app</a>
<b>Research Experience</b>	Agricultural Economics Fall 2016 to present. School of Economic Sciences, Washington State University. Dr. J. Shannon Neibergs
	Global Health and Development Fall 2017 to present. School of Economic Sciences, Washington State University. Dr. Thomas L. Marsh
<b>Teaching Experience</b>	Instructor, EconS 523 Data Management and Processing, Fall 2021. School of Economic Sciences, Washington State University.
	Research Experience for Undergraduates R Workshop, Introduction to R and Data Organization with R Instructor. Washington State University, June 2021.
	Reproducible Research Techniques with R Workshop, Rmarkdown Instructor. Washington State University, March 2021.
	Reproducible Research Techniques with R Workshop, Rmarkdown Instructor. Washington State University, November 2020.
	Data Carpentry Workshop Intro to R and Starting with Data in R Instructor. Washington State University, October 2019. <a href="https://datacarpentry.org">https://datacarpentry.org</a>

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

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

## **Presentations**

*An Evaluation of Livestock Health on Production Inefficiency in Western Kenya.* 2021 AAEE Annual Meeting. Austin, TX. Selected presentation.

*An Evaluation of Livestock Health on Production Inefficiency in Western Kenya.* Vet Economics Group, National Veterinary School of Toulouse, April 2021. Seminar Series.

*Evaluating the Wider Economic Effects of Negative Production Impacts in Aquaculture.* Aquaculture Disease Burden Technical Working Group, Global Burden of Animal Diseases Program, April 2021. Invited speaker.

*Economic Implications of Genetic Marker Selection in Bovine Respiratory Disease SEIR Modeling.* Vet Economics Group, National Veterinary School of Toulouse, March 2021. Seminar Series.

*Washington State Livestock Identification: Changes to Current Laws and the Future of Traceability.* 2020 WAEA/WEC Annual Meeting. Virtual conference due to Covid-19. Selected presentation.

*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**

Washington State University R Working Group Co-organizer, academic year 2021-22.

Planning Committee member - International Society for Economics and Social Sciences of Animal Health Conference. Malaysia. November, 2021.

Planning Committee member - Extension Risk Management Education National Conference. Virtual platform, 2020.

Selected presentation moderator, 2020 WAEA/WEC annual meeting.

Invited instructor - Software Carpentry Workshop, Git lesson, 13-14 April 2020. Workshop cancelled due to COVID-19.

Planning Committee member - Extension Risk Management Education National Conference. Denver, CO. 1-2 April 2020. Conference cancelled due to COVID-19.

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. J. Shannon Neibergs**

(Committee Co-chair)  
Professor, WEC Director  
School of Economic Sciences  
Washington State University  
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### **Dr. Thomas L. Marsh**

(Committee Co-chair)  
Distinguished Professor  
School of Economic Sciences  
Washington State University  
Pullman, WA 99164  
Office: (509) 335-8597  
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### **Dr. Shanthi Manian**

(Committee Member)  
Assistant Professor  
School of Economic Sciences  
Allen School for Global Animal Health  
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