

**LEVAN ELBAKIDZE**

Associate Professor

Graduate Coordinator

Division of Resource Economics and Management

Davis College of Agriculture, Natural Resources, and Design

Center for Innovation in Gas Research and Utilization

West Virginia University

[levan.elbakidze@mail.wvu.edu](mailto:levan.elbakidze@mail.wvu.edu)

(304) 293-5487

<http://www.davis.wvu.edu/faculty-staff/directory/levan-elbakidze>

**EDUCATION**

<b>Ph.D.</b> Texas A&M University, College Station, Texas.	Degree Date: December 2004
<b>M.S.</b> University of Nevada, Reno,	Degree Date: August 2000
<b>B.S.</b> University of Nevada, Reno,	Degree Date: December 1998

**PROFESSIONAL EMPLOYMENT**

*West Virginia University, Resource Economics and Management, Morgantown, WV*

Associate Professor, with Tenure	June 2018 to Present
Graduate Coordinator	August 2018- Present
Assistant Professor	August 2015 to June 2018

*University of Idaho, Agricultural Economics and Rural Sociology, Moscow, ID*

Associate Professor, with tenure	June 2014 to August 2015
Graduate Committee Chair	November 2013 to August 2015
Assistant Professor	March 2008 to June 2014

*Texas A&M University, Agricultural Economics, College Station, Texas*

Assistant Research Professor	March 2005 to February 2008
Lecturer of Agricultural Economics	August 2004 to December 2004
Research Assistant	September 2001 to August 2004
Teaching Assistant	September 2000 to August 2001

*Tomball Community College, Economics, Houston, TX*

Lecturer of Economics	January 2003 to December 2003
-----------------------	-------------------------------

*University of Nevada, Applied Economics, Reno, NV*

Research Assistant	September 1998 to August 2000
--------------------	-------------------------------

**PROFESSIONAL APPOINTMENTS**

Editorial board, <i>Water Economics and Policy</i>	January, 2016 to Present
Editorial board, <i>Journal of Agricultural and Resource Economics</i>	April, 2018 to Present

**AWARDS**

Outstanding Research Award (2017) , Division of Resource Economics and Management, Davis College of Agriculture Natural Resources and Design, West Virginia University.

**PUBLICATIONS**

(Graduate students denoted with an \*)

- Elbakidze, L., H. Vinson\*, K. Cobourn, and G. Taylor (2018), "Efficient Groundwater Allocation and Binding Hydrologic Externalities," *Resource and Energy Economics*, 53:147-161
- Elbakidze, L. and R. Nayga, (2017) "The Adding-up Test in an Incentivized Value Elicitation Mechanism: The Role of the Income Effect" *Environmental and Resource Economics*. DOI 10.1007/s10640-017-0177-9
- Elbakidze, L., B. Faannunu\*, A. Mamula, G. Taylor (2017) "Evaluating economic efficiency of a water buyback program: The Klamath irrigation project" *Resource and Energy Economics*, 48:68-82.
- Elbakidze, L., G Taylor, B. Schiller\*, (2017) "Estimation of short and long run derived irrigation water demands and elasticities" *Water Economics and Policy*, 3(1), 22pp.
- Yang\*, L., L. Elbakidze, C McIntosh, T. Marsh, (2016) "Primary and secondary pest management in agriculture: balancing pesticides and natural enemies in potato production" *Agricultural Economics*, 47:1-11
- Elbakidze, L., and Y. Jin (2015) "Are economic development and education improvement associated with participation in transnational terrorism?" *Risk Analysis*, 35(8):1520-35, DOI: 10.1111/risa.12378
- Ghosh, S., K. M. Cobourn, and L. Elbakidze, (2014) "Water banking, conjunctive administration, and drought: the interaction of water markets and prior appropriation in southeastern Idaho", *Water Resources Research*, 50(8): 6927–6949, DOI: 10.1002/2014WR015572
- Elbakidze, L, R. M. Nayga Jr., H. Li\*, C. McIntosh, (2014) "Value elicitation for multiple quantities of a quasi-public good using open ended choice experiments and uniform price auctions", *Agricultural Economics*, 45(2):253-265
- Elbakidze L. and K. M. Cobourn, (2013) "Economic foundations for the interdisciplinary modeling of water resources under climate change", *Journal of Contemporary Water Research and Education* 152:32-41.
- Egbendewe-Mondzozo, A., L. Elbakidze, B. McCarl, M. P. Ward, and J. Carey, (2013) "Partial equilibrium analysis of vaccination as an avian influenza control tool in the U.S. poultry sector", *Agricultural Economics*, 44(1):111-123, DOI: 10.1111/j.1574-0862.2012.00634.x
- Elbakidze, L R. Nayga, H. Li\*, (2013) "Willingness to pay for multiple quantities of animal welfare dairy products: results from random nth, second price, and incremental second price auctions", *Canadian Journal of Agricultural Economics*, 61(3):417-438, DOI: 10.1111/j.1744-7976.2012.01263.
- Elbakidze, L., X Shen\*, G. Taylor, S. Mooney, (2012) "Spatiotemporal analysis of prior appropriations water calls", *Water Resources Research*, 48(6):1-13, doi:10.1029/2011WR010609
- Elbakidze, L., and Y. Jin, (2012) "Victim countries of transnational terrorism: an empirical characteristics analysis", *Risk Analysis*, 32(12):2152-65, DOI: 10.1111/j.1539-6924.2012.01815.x

- Elbakidze, L., and R. Nayga, (2012) "The effects of information on willingness to pay for animal welfare in dairy production: application of non-hypothetical valuation mechanisms", *Journal of Dairy Science*, 95(3):1099-1107
- Elbakidze, L., L. Lu\*, S. Eigenbrode, (2011) "Evaluating vector-virus-yield interactions for peas and lentils under climatic variability: a limited dependent variable analysis" *Journal of Agricultural and Resource Economics* 36(3):504-520
- Elbakidze, L., L. Highfield, M. Ward, B. McCarl, and B. Norby, (2009) "Economic analysis of mitigation strategies for FMD introduction in highly concentrated animal feeding regions", *Review of Agricultural Economics*,31(4):931-950
- Jin, Y., B. McCarl, and L. Elbakidze, (2009) "Risk assessment and management of animal disease-related biosecurity", *International Journal of Risk Assessment and Management*, 12(2/3/4):186-203
- Jin, Y., Power, G., and L. Elbakidze, (2008) "The impact of north American BSE events on live cattle futures prices" *American Journal of Agricultural Economics*, (December Proceedings Issue): 1279-1286
- Elbakidze, L., (2008) "Modeling of Avian Influenza Mitigation Policies within the Backyard Segment of the Poultry Sector", *Journal of Agricultural and Resource Economics*, 33(2):195-211.
- Elbakidze L., (2007) "Economic benefits of animal tracing in the cattle production sector" *Journal of Agricultural and Resource Economics*, 32(1):169-180.
- Elbakidze L. and B. McCarl., (2007) "Sequestration offsets versus direct emission reductions: consideration of environmental externalities." *Ecological Economics*, 60:564-571
- Elbakidze L. and B. McCarl, (2006) "Animal disease pre event preparedness versus post event response: when is it economic to protect?" *Journal of Agricultural and Applied Economics*, 38(2):327-336
- Elbakidze L., (2006) "Potential economic impacts of changes in water availability on agriculture in the Truckee and Carson river basins, Nevada, USA," *Journal of the American Water Resources Association*, 42(4):841-849
- Elbakidze L. and B. McCarl., (2004) "Should we consider the co-benefits of agricultural GHG offsets?" *Choices*, Fall,

## **BOOK CHAPTERS**

- Hagerman, A., A. Ebgendewe-Mondzozo, L. Elbakidze, B. A. McCarl, 2017 "Prevention versus Response: Application in Management of Diseases," in " Risk in Extreme Environments: Preparing, Avoiding, Mitigating, and Managing " Edited by Vicki Bier. *Routledge Taylor and Francis*.
- Cobourn, K.M., L. Elbakidze, and S. Gosh, 2017 "Conjunctive water management in hydraulically connected regions in the western U.S." in *Competition for Water Resources: Experiences and Management Approaches in the US and Europe*, Eds Ziolkowska, J.R.; Peterson, J.M., Elsevier press., pp.278-297

**FUNDING**

- Elbakidze, L. R. Jackson, "Economic analysis of energy alternatives and policies for WV", The Nature Conservancy. \$99,955, 2016-2017, Funded
- Elbakidze, L., Schroeder, B. G. Taylor, "Evaluating Irrigation Water Quality Regulation in Fresh Produce Production: The Case of Treasure Valley in Eastern Oregon and Southwest Idaho", USDA-AFRI, \$402,000, 2016-2000, Funded
- Tavarez, H., L. Elbakidze, and A. Chacon, "Alleviating water scarcity in seasonally dry rural Costa Rica: the value of ecosystem service co-benefits from reforestation", Borlaug Foundation, Purdue University, \$19,696, 2014, Funded
- Elbakidze, L., G. Taylor, L. Barannyk, RD Schmidt, T Soltaninejad, "Dynamic modeling of rule curve reservoir operations under stochastic climate conditions", USGS, \$13,933, Elbakidze's budget: all, 2013, Funded
- Elbakidze, L., B. Contor, K. Cobourn, "Analysis of potential for ground water pumping lease markets in a segmented Eastern Snake River Plain Aquifer" Idaho-NSF-EPSCOR, 2011, \$64,708, Elbakidze's budget: all, Funded
- Lowe, S., K. Cobourn, L. Elbakidze, D. Ames, "Data processing capabilities of METRIC to investigate the economic viability of a real-time water markets", Idaho-NSF-EPSCOR, 2011, \$76,460, Elbakidze's budget \$0, Funded
- Snyder, W. E., J. Alvarez, D. Crowder, L. Elbakidze, J. Goldberger, J. Horton, D. Harwood, R. Jabbour, A. Jenson, L. Lacey, P. Landlot, J. Munyaneza, H. Pappu, K. Pike, S. Randon, T Waters, C. Wohleb, R. Zack, "Area-wide Management of Potato Pests (AMPP) in the Pacific Northwest", USDA-CSREES: \$2,048,490, Elbakidze's budget \$140,000. 2009, Funded
- Elbakidze, L. and A. Mamula, "Klamath Water Bank: Analysis and Alternatives for Allocating Klamath Water", NOAA, 2009-2011, \$47,511, Elbakidze's share \$47,511, Funded
- Elbakidze, L R. Nayga, "Assessing the market for animal welfare attributes in dairy production", USDA-ERS-FSMIP, 2009-2011, \$48,031, Elbakidze's budget \$43,771. 2009, Funded
- Elbakidze, L., S. Eigenbrode, "Management of Virus Disease Epidemics in Lentils via Prescribed Conditional Pea Aphid Control: Evaluation of Economic Effectiveness and Feasibility", CSREES, USDA, 2009-2012, \$94,821, Elbakidze's budget \$65,201, Funded
- Morra, M., A. Briones, L. Elbakidze, A. McDonald, P. Salant, and J. V. Gerpen, "Ecologically Sustainable and Socioeconomically Responsible Production of Biofuels and Bioproducts", FIT program In Environmental Sciences, University of Idaho,\$10,000, Elbakidze's share \$0. April 2009, Funded
- Taylor, G., and L. Elbakidze, "Regional economic demand for irrigation water in Idaho's Eastern Snake River Plain", USGS, \$18,120, All budget shared with G. Taylor. February 2008, Funded
- Elbakidze, L., McCarl, A. B., Ward M., Carey B. J., "Modeling and Economic Evaluation of Effectiveness of Avian Influenza Mitigation Options", *Program of Research on the Economics of Invasive Species Management*, ERS, USDA, \$150,000, Elbakidze's Budget \$110,000 Oct, 2006, Funded

Clarke, N.P., L. Elbakidze, D.M. Hartley, B.A. McCarl, T. Nipp, C.J. Peters, and R. Srinivasan, "Animal Disease Consequence Modeling of Rift Valley Fever," 2007, NBACC (National Biodefense Analysis and Countermeasures Center) \$70,000, Elbakidze's budget \$0, Funded

### **CLASSES TAUGHT**

ARE 693 (Graduate) – Economics of Water Resources and Energy, 2017 – present  
 ARE 710 (Graduate) – Advanced Environmental Economics 2018 - present  
 ARE 621 (Graduate) – Quantitative Methods, WVU, 2016 - present  
 ARE 201 (Undergraduate) – Principles of Resource and Energy Economics, WVU, 2015, 2016  
 AGECE 451(Undergrad/Grad) – Applied Environmental and Natural Resource Economics, UI, 2009-2015, (*Faculty on record*)  
 AGECE 534 (Graduate) – Production Economics, UI, 2009-2015, (*Faculty on record*)  
 AGECE 641 (Graduate) – Lab, Mathematical Programming, TAMU, 2004, 2005 (*Lab Instructor*)  
 AGECE 317 (Undergraduate) – Quantitative Methods in Agricultural Economics, TAMU, 2004 (*Faculty on record*)  
 ECON 2302 (Undergraduate) – Introductory Microeconomics, Tomball Community College, 2003 (*Faculty on record*)  
 ECON 2301 (Undergraduate) – Introductory Macroeconomics, Tomball Community College, 2003 (*Faculty on record*)

#### ***Short Courses:***

GEOS 697 (Graduate) – Interdisciplinary Modeling: Water-Related Issues and Changing Climate, Boise, ID, Summer 2015, (Guest Lecturer)  
 RGSC 618 (Graduate) - Interdisciplinary Modeling: Water-Related Issues and Changing Climate, Las Cruces, NM, Summer 2012, (Guest Lecturer)  
 NRES 730 (Graduate) – Interdisciplinary Modeling: Water-Related Issues and Climate Change, Reno, NV, Summer 2010, (Guest Lecturer)

### **TEACHING EVALUATIONS**

Course No.	Course Title	University	Term Year	Credits	No. of Students	Evaluations	
						Class	Instructor
ARE 621	Quantitative Methods <sup>c</sup>	West Virginia University	Spring 2016	3	7	4.4	3.8
			Spring 2017	3	9	3.8	3.6

			Spring 2018	3	6	4.8	4.8
ARE 710	Advanced Environmental Economics <sup>c</sup>	West Virginia University	Spring 2018	3	6	5	5
ARE 693	Economics of Water Resources and Energy <sup>c</sup>	West Virginia University	Fall 2017	3	6	4.3	4.5
ARE 201	Principles of Resource and Energy Economics <sup>c</sup>	West Virginia University	Fall 2015	3	29	3.67	3.89
			Fall 2016	3	29	4.16	4.0
AGEC 534	Production Economics <sup>b</sup>	University of Idaho	Spring 2009	3	5	NA <sup>a</sup>	NA <sup>a</sup>
			Spring 2010	3	12	3.0	3.0
			Spring 2011	3	12	3.6	3.7
			Spring 2012	3	14	3.8	3.8
			Spring 2013	3	5	3.6	3.8
			Spring 2014	3	8	3.8	3.8
			Spring 2015	3	5	3.8	4.0
AGEC 451	Applied Natural Resource and Environmental Economics <sup>b</sup>	University of Idaho	Spring 2009	3	11	3.2	3.6
			Spring 2010	3	16	3.42	3.75
			Spring 2011	3	11	3.4	3.5
			Spring 2012	3	22	3.5	3.65
			Spring 2013	3	14	3.2	3.1
			Spring 2014	3	6	3.5	3.7
			Spring 2015	3	21	3.3	3.5
AGEC 641	Mathematical Programming, Lab	Texas A&M	Spring 2004	1	14	NA	4.46 <sup>c</sup>
			Spring 2005	1	8	NA	4.68 <sup>c</sup>
AGEC 317	Quantitative Methods in Agricultural Economics	Texas A&M	Fall 2005	3	94	NA	NA
ECON 2302	Introductory Microeconomics	Tomball Community College	Spring 2003	3	27	NA	ME <sup>d</sup>
			Summer 2003	3	27	NA	NA
			Fall 2003	3	NA	NA	NA

ECON 2301	Introductory Macroeconomics	Tomball Community College	Summer 2003 Fall 2003	3 3	33 24	NA NA	NA NA
--------------	--------------------------------	---------------------------------	--------------------------	--------	----------	----------	----------

<sup>a</sup> Classes with less than 5 students were not evaluated at the time

<sup>b</sup> Maximum possible instructor and class score was 4.

<sup>c</sup> Maximum possible score was 5

<sup>d</sup> Meets expectations

### **GRADUATE STUDENT MAJOR ADVISOR AND COMMITTEE CHAIR**

Marziyeh Bahalou Horeh, Ph.D. Resource Economics and Management, WVU, 2018-present  
 Ritika Khurana Ph.D. Resource Economics and Management, WVU, 2018-present  
 Quinn Beeson, MS. Resource Economics and Management, WVU, 2018-present  
 Michael Reed, Ph.D. Resource Economics and Management, WVU, 2015-present  
 Douglas Mugabe, Ph.D. Resource Economics and Management, WVU, 2015-present  
 Yiming He, Ph.D. Resource Economics and Management, WVU, 2016-2017  
 Hector Tavarez, Ph.D. Environmental Sciences, University of Idaho, August 2011 – May 2016  
 Hannah Vinson, MS, Applied Economics, University of Idaho, August 2013-2015  
 Tayebeh Soltaninejad, MS, Applied Economics, University of Idaho, August 2012-2015  
 Juan Luo, MS, Applied Economics, University of Idaho, August 2012-2014  
 Lianxin Yang, MS, Applied Economics, University of Idaho, August 2010 – Dec. 2012  
 Hao Li, MS, Applied Economics, University of Idaho, August 2009- 2010  
 Liang Lu, “Jimmy”, MS, Applied Economics, University of Idaho, August 2009 – 2012  
 Xiaozhe, Shen, “Bill”, MS, Applied Economics, University of Idaho, May 2009 – Jan. 2011  
 Benjamin Faanunu, MS, Applied Economics, University of Idaho, August 2009 – May, 2012  
 Brett Schiller, MS Applied Economics, University of Idaho, May 2008 – 2009 (Incomplete)

### **GRADUATE COMMITTEES**

Seth Wiggins, Ph.D, Resource Economics, WVU, 2015-present  
 Abbas Akhadov, MS, Environmental Science, Sept 2011-May 2013  
 Giri Aryal, MS, Applied Economics, University of Idaho, Sept 2011-May 2013  
 Ashley McClain, MS, Applied Economics, University of Idaho, Oct. 2010 – 2012  
 Miguel-Henry Osario, Ph.D. (WSU) (Committee member), Jan 2010 -2012  
 Aklesso Egbendewe-Mondzozo, Ph.D. (TAMU) (Committee member) Jan. 2007– Dec. 2009

### **TECHNICAL REPORTS**

Cohen, J., L. Elbakidze, R. Jackson, An Empirical Analysis of State-Level Solar Energy Policies: Takeaways for West Virginia, Final report to The Nature Conservancy, West Virginia Chapter, 5/1/2017  
 Elbakidze, L., R. Nayga, H. Li, “Willingness to pay for humane animal care labeled dairy products using experimental methods” final report to Federal State Marketing Improvement Program, USDA, 11/2011

- Elbakidze, L., and G. Taylor, "Regional economic demand for irrigation water in Idaho's Eastern Snake River Plain", USGS 104(b), June 2009
- Egbenkewe-Mondzozo, A., L. Elbakidze, B. McCarl, M. P. Ward, J. Carey "Evaluation of AI mitigation strategies for a hypothetical outbreak in Texas" Final Report for the *Program of Research on the Economics of Invasive Species Management*, ERS, USDA, Washington, DC, 2009
- Ward, M., B. Norby, B. McCarl, L. Elbakidze, R. Srinivasan, L. Highfield, S. Loneragan, J. Jacobs, "High Plains Project Report", National Center for Foreign Animal and Zoonotic Disease Defense, Fall 2007
- Elbakidze, L., B. McCarl, Y. Jin, and D. Bessler, Quarterly and semiannual progress reports to National Center for Foreign Animal and Zoonotic Disease Defense (NCFAZDD), Texas A&M University,
- Elbakidze, L., B. McCarl, Y. Jin, and D. Bessler, "Economic Studies Regarding Comprehensive Decision Making for Agricultural Biosecurity" Annual progress reports from NCFAZDD to the Department of Homeland Security, 08/2005, 08/2006
- Narayanan, R., T.R. MacDiarmid, L. Elbakidze, L. Ma and M.E. Reid. "Feasibility of Alternative Water Charge Structures for the Newlands Project." University of Nevada, Reno. Department of Applied Economics and Statistics. A report prepared for the U.S. Department of the Interior, Bureau of Reclamation, and the Truckee Carson Irrigation District, 2000.

#### **CONFERENCE AND OTHER RESEARCH PRESENTATIONS**

- Elbakidze, L. Evaluating irrigation water quality regulation in fresh produce production, USDA-NIFA AFRI Project Directors Meeting. Agricultural Economics and Rural Communities Programs, AAEA Post-Conference Workshop, 2017
- Elbakidze, L. and R. Nayga, "The Adding-up Test in an Incentivized Value Elicitation Mechanism: The Role of the Income Effect", European Association of Environmental and Resource Economics, Athens, Greece, 06/29/2017.
- Elbakidze, L., Vinson, H., K. Cobourn, and G. Taylor, "Efficient Water Allocation and Binding Hydrologic Externalities", International Water Resource Economics Consortium, World Bank, Washington DC, September, 2016
- Elbakidze, L. and G. Zaynutdinova, "Elasticities of substitution in electricity production sector: state level analysis of structural change from fracked natural gas production". Agricultural and Applied Economics Association, Boston, MA, July 2016
- Elbakidze, L., Vinson, H., K. Cobourn, and G. Taylor, "Efficient Water Allocation and Binding Hydrologic Externalities", European Association of Environmental and Resource Economists, Zurich, Switzerland, June 2016
- Cobourn, K., L. Elbakidze, and G. Amacher, "Bargaining for Recharge: An Analysis of Cooperation and Conjunctive Surface Water-Groundwater Management", Allied Social Sciences Association annual meetings, San Francisco, January, 2016



- Elbakidze, L., H. Vinson, K. M. Cobourn, and R. G. Taylor, "Hydrologic Externalities and Water Transfers in Conjunctively Managed Water Systems", West Virginia University, February, 2015
- Elbakidze, L. "Hydro-economic modeling for water valuation and distribution oriented policy studies," Water Resource Conference of the Virginias, Roanoke, WV, October 2015
- Elbakidze, L. and R. Nayga, "Validating the Consistency of Non-hypothetical Experimental Auction Data: An Application of the Adding-up Test", Annual Meeting of the Agricultural and Applied Economics Association, San Francisco, July, 2015
- Elbakidze, L., H. Vinson, K. M. Cobourn, and R. G. Taylor, "Hydrologic Externalities and Water Transfers in Conjunctively Managed Water Systems", Washington State University, February, 2015
- Elbakidze, L., B. Fa'anunu, A. Mamula, R. G. Taylor, "Evaluating a Water Buy Back Program" Pacific Northwest Regional Economic Conference, Bellingham, WA, April 2015.
- Elbakidze, L., B. Fa'anunu, A. Mamula, R. G. Taylor, "Evaluating a Water Buy Back Program" International Water Resources Economics Consortium (IWREC), World Bank, Washington DC, September 2014.
- Elbakidze, L., H. Vinson, K. M. Cobourn, and R. G. Taylor, "Hydrologic Externalities and Water Transfers in Conjunctively Managed Water Systems", Annual Meeting of the Agricultural and Applied Economics Association, Minneapolis, July, 2014
- Elbakidze, L., B. Fa'anunu, A. Mamula, R. G. Taylor, "Evaluating a Water Buy Back Program" World Congress of Environmental and Resource Economists, Istanbul, Turkey, June 2014.
- Elbakidze L. "Economic Efficiency in Interdisciplinary Water Models: The ESRPA Irrigation example", NSF ID-EPSCOR Conference, McCall, ID, Oct. 2013
- Elbakidze L. and G. Taylor, "Spatio-temporal Modeling of Irrigation Water Use and Transfers: Implications of Hydrologic Connectivity", Western Agricultural Economics Association, Monterey, CA, June 2013.
- Ghosh, S.K. M. Cobourn, L. Elbakidze, "Water Banks, Markets, and Consumptive Use: A Comparison of Water Trading Instruments in the Eastern Snake River Plain", Agricultural and Applied Economics Association, Washington DC, August 2013
- Yang, L., L. Elbakidze, T. L. Marsh, C. McIntosh, "The Role of Natural Enemies in Management of Primary and Secondary Pests in Agricultural Production", Western Agricultural Economics Association, Monterey, CA, June 2013.
- Lu, L. and Elbakidze, L. "Application of Comparative Dynamics in Stochastic Invasive Species Management in Agricultural Production" Annual Meeting of the Agricultural and Applied Economics Association, Seattle, August, 2012
- Elbakidze, L., R. Nayga, and H. Li, "Demand for Humane Animal Care in Dairy Market: Application of Experimental Auctions" Western Agricultural Economics Association, Park City, UT, June 21, 2012.
- Vinson, H. and Levan Elbakidze, "Enhancing Economic Effectiveness of Water use within Prior Appropriations Doctrine in the Western United States", Annual meeting of the Pacific

- Division of the American Association for Advancement of Science, Boise, Idaho, June 2012.
- Elbakidze, L., "Natural Resource Economics Workshop", Summer Research Experience for Undergraduates (REU) Internship Program (National Science Foundation), Center for Research on Invasive Species and Small Populations (CRISSP), University of Idaho, July 24, 2012.
- Elbakidze, L., and Y. Jin, "Do Economic Factors Affect Transnational Terrorists' Target Selection Patterns?" Western Economics Association International, San Francisco, CA, July 1, 2012
- Henry-Osorio, M., V. McCracken and L. Elbakidze, "Modeling Consumer Bidding Behavior on Food Items: Evidence from a Two-Stage Sequential BDM Field Experiment." American Association of Wine Economists (AAWE), Sixth Annual Conference, Princeton, NJ, June 7-10, 2012
- Elbakidze, L. "Research Areas and Opportunities", meeting with Idaho Solid Waste Association, Moscow, ID, Sept. 2011
- Elbakidze, L., R. Nayga, "The effects of information about unobservable attributes on WTP in non-hypothetical valuation mechanisms" Principle paper at the Annual Meeting of the Agricultural and Applied Economics Association, Pittsburg, July, 2011
- Lu, L. and Elbakidze, L. "Weather forecast based conditional pest management: a stochastic optimal control investigation" Annual Meeting of the Agricultural and Applied Economics Association, Pittsburg, July, 2011
- Elbakidze, L. and Y. Jin, "Rooted in poverty? Assessing the links between development and transnational terrorism", annual meetings of the Western Economics Association International, San Diego, June 2011
- Elbakidze, L., B. Faanunu, and A. Mamula, "Cost Effectiveness of Federal Water Acquisitions for Habitat Restoration", NAAFE (North American Association for Fisheries Economists) forum, Honolulu, HI, May 2011
- Elbakidze, L. X. Shen, B Contor, G. Taylor, and S. Mooney, "Prior Appropriations Doctrine During Water Shortages: Evaluation of Spatial and Temporal Efficiency", Tri-State NSF-EPSCOR conference, Santa Ana Pueblo, New Mexico, April, 2011
- Lu, L., L. Elbakidze, "Evaluation of Vector-Virus-Crop Interaction Under Climate Change using Simultaneous Equation Estimation", RAMP-USDA Meeting, Moscow, ID, Feb., 2011
- Elbakidze, L., "Pricing a sustainable solution – the natural-resource economics of change", invited presentation in Sustainable Management of Natural Systems (Soil 404/504), University of Idaho, Feb. 8, 2011
- Elbakidze, L., Y. Jin, "Economics of Terrorism or Terrorism of Economics", Department Seminar, University of Idaho, Dec., 2010
- Elbakidze, L. "Calculating Irrigation Water Demand Using Hydrology, Agronomy, and Economics", NSF EPSCOR tri state conference, Incline Village, NV, April 07, 2010
- Elbakidze, L., and Y. Jin, "Economics and Transnational Terrorism: Hunters and Hunted", Invited presentation, Economics Club, University of Idaho, Moscow, ID, October, 2010

- Elbakidze, L., "Willingness To Pay For Animal Welfare In Dairy Production: Evidence From Experimental Auctions", *The Malcolm M. Renfrew Interdisciplinary Colloquium*, University of Idaho, Sponsored by the UI Research Office, the College of Graduate Studies, and the University Honors Program, November, 2010
- Elbakidze, L., and Y. Jin, "Rooted in poverty? Assessing the links between development and transnational terrorism", Invited presentation, Economic Modeling Specialists (EMSI), Moscow, ID, April, 2010
- Lu, L., L. Elbakidze, "Evaluating Vector-Virus-Plant Interaction in Regional Supply of Peas and Lentils: a Limited Dependent Variable Analysis", RAMP-USDA Meeting, Moscow, ID, Feb., 2010
- Elbakidze, L. and A. Egbendewe-Mondzozo, "Modeling and Economic Evaluation of Effectiveness of Avian Influenza Mitigation Options", *Program of Research on the Economics of Invasive Species Management*, ERS, USDA, Washington, DC, October, 2009
- Elbakidze, L. "Climate Change and Conjunctive Water Management in Southern Idaho: Modeling and Research Directions", NSF - EPSCoR Annual meetings, Moscow ID, August, 2009
- Elbakidze, L. and G. Taylor, "Conjunctive Water Management and Managed Recharge in the Snake River Aquifer", Western Agricultural Economics Association Annual meetings, Kauai, HI, June, 2009
- Elbakidze, L. and G. Taylor, "Conjunctive Water Management in the Snake River Plain Aquifer" W2133 annual meeting, Austin, TX, Feb. 19, 2009
- Elbakidze, L., "Estimating Economic Value of Forecast Based Conditional Pea Aphid Control in Cool Season Food Legume Production", Cool Season Food Legume Research Program, Moscow, ID, Feb 4, 2009
- Elbakidze, L. "Water Resources and Climate Change in Southern Idaho: Economic Principles for Interdisciplinary Research", Invited Presentation, Idaho Water Resources Research Institute, Waters of the West, Hydrology Seminar, (Hydro 501), University of Idaho, Moscow ID, September, 2009
- Elbakidze, L., B. A. McCarl, "Economics Analysis Of Mitigation Strategies For FMD Introduction In Highly Concentrated Animal Feeding Regions" Agricultural and Applied Economics Association annual meetings, Orlando, FL, July, 2008
- Jin, Y., Power, G., and L. Elbakidze, "The Impact of North American BSE Events on Live Cattle Futures Prices" Principal Paper presentation at the annual meetings of the Agricultural and Applied Economics Association, Orlando, FL, July, 2008
- Elbakidze, L., "Modeling of Avian Influenza Mitigation Policies within the Backyard Segment of the Poultry Sector", Western Agricultural Economics Annual Meetings, Big Sky, Montana, June, 2008
- Elbakidze, L., "Review of Environmental and Natural Resource Economics", invited presentation in Interdisciplinary Methods in Water Resources (WR 506), University of Idaho, Oct, 23, 2008
- Elbakidze, L., "Modeling of Avian Influenza Mitigation Policies within the Backyard Segment of the Poultry Sector", Invited presentation, University of Idaho, October, 2007

- Elbakidze, L., "Agricultural Water Supply under Altered Climatic Conditions" Invited presentation, Texas Tech University, October, 2007
- Elbakidze, L. "Modeling Of Avian Influenza Mitigation Policies In Commercial Sector: Backyard Segment Of The Poultry Sector", *Program of Research on the Economics of Invasive Species Management*, ERS, USDA, Washington, DC, October, 2007
- Elbakidze L., "Economic Benefits of Animal Tracing in the Cattle Production Sector" Western Agricultural Economics Association Annual Meetings, Portland OR, July, 2007
- Elbakidze L., and B. McCarl, "Vulnerability Assessment in Animal Diseases", Foreign Animal and Zoonotic Disease Defense center, Workshop on "Modeling the Potential Economic Impacts of Rift Valley Fever outbreak in the United States on the Beef Cattle and Dairy Industries", Washington DC, April 23-24, 2007
- Elbakidze, L., "Mitigation of Infectious Animal Disease Outbreaks: Economic Issues and Modeling", Marketing Policy Conference: "Bio-terrorism and Natural Disasters: Market and Policy Responses", Food and Agricultural Marketing Policy Section (FAMPS), NC-1016, C-FARE, Washington D.C., March, 2007
- McCarl, B. and L. Elbakidze, "Economic Evaluation of Preparedness, Response, and Recovery strategies" Department of Homeland Security Research and Education Summit, Washington D.C. March 2007
- Elbakidze, L., B. McCarl, M. Ward, J. Carey, "Modeling and Economic Evaluation of Effectiveness of Avian Influenza Mitigation Options", *Program of Research on the Economics of Invasive Species Management*, ERS, USDA, Washington, DC, October, 2006
- Elbakidze L., "Determinants of Preparedness to Infectious Animal Disease Introductions" Annual Meetings of Southwestern Economics Association. San Antonio, April, 2006
- McCarl B. and L. Elbakidze, "Bio-Security and the U.S. Livestock Sector: Trading off Prevention and Response" Annual Meetings of Southern Agricultural Economics Association, Orlando, February, 2006.
- Elbakidze L., B. McCarl, Y. Jin, and D. Bessler, "Economic Studies Regarding Comprehensive Decision Making for Agricultural Biosecurity", Presentation to the internal advisory committee of NCF AZDD, February, 2006
- Elbakidze L., "Ex Ante vs. Ex Post Bioterrorism Mitigation: Better Safe than Sorry?" Annual Meetings of American Agricultural Economics Association, Providence, RI, July, 2005
- Elbakidze L., and B. McCarl, "A Conceptual Approach to the Optimal Mix of Pre and Post Event Mitigation Options in Agricultural Terrorism," Annual Meetings of American Agricultural Economics Association, Providence, RI, July, 2005
- Elbakidze L., and B. McCarl, "Economic Consideration of Mitigation of Foreign Animal Disease Introduction" Working Together: Research & Development (R&D) Partnerships in Homeland Security, U.S. Department of Homeland Security, Science and Technology Directorate, Boston, MS. April, 2005.
- Elbakidze L., "Ex Ante vs. Ex post Bioterrorism Mitigation: Better Safe than Sorry?" Seminar. Department of Agricultural Economics, Texas A&M University. March, 2005

- Elbakidze L. and B. A. McCarl, "Subsidizing Agricultural Carbon Sequestration: Consideration of Externalities." Annual Meeting of Southwestern Social Science Association. New Orleans, LA. March, 2005
- Elbakidze, L., "Agricultural Terrorism through Animal Disease Spread: Tradeoffs between Detection and Response," Foreign Animal and Zoonotic Disease Defense Center workshop, UC Davis, November, 2004.
- Elbakidze, L., "Regional Benefits of Climate Change from Increased Water Supply." Annual Meeting of Southwestern Social Science Association. Corpus Christi, TX. March, 2004.
- Elbakidze, L., "Sequestration Offsets versus Direct Emission Reductions: Consideration of Environmental Externalities." Presented as part of the forum organized by the Consortium for Agricultural Soil Mitigation of Greenhouse Gases. Department of Agricultural Economics, Texas A&M University. January, 2004

### **CONFERENCE POSTERS**

- Elbakidze, L., H. Stephens, M. Strager, and X. Etienne, "Policy Relevant Analysis of Demand, Supply, and Utilization of Natural Resources to Facilitate Economic Growth", Governor's Energy Summit, Roanoke, WV, October, 2016
- Elbakidze, L., H. Stephens, M. Strager, and X. Etienne, "Policy Relevant Analysis of Demand, Supply, and Utilization of Natural Resources to Facilitate Economic Growth", Shale Gas Network Forum, Morgantown, WV, November, 2016
- Elbakidze, L., X. Shen, R. G. Taylor, and S. Mooney, "Moving Forward with the Prior Appropriations Doctrine in Coping with Irrigation Water Shortages." Poster presentation at the annual meetings of the Agricultural and Applied Economics Association, Seattle, WA, August, 2012
- Elbakidze, L., H. Li, R. Nayga, "Consumers' Willingness to Pay for Animal Welfare Attributes in Dairy Products: Evidence from Experimental Auctions", A Poster presentation at the annual meetings of the Agricultural and Applied Economics Association, Denver, CO, July, 2010
- Elbakidze, L., L. Lu, and S. Eigenbrode, "Evaluating Vector-Virus-Plant Interaction in Regional Supply of Peas and Lentils: A Limited Dependent Variable Analysis", A Poster presentation at the annual meetings of the Agricultural and Applied Economics Association, Denver, CO, July, 2010
- Egbendewe-Mondzozo, A., L. Elbakidze, B. A. McCarl, "Stochastic Integrated Economic-Epidemic Modeling of Avian Influenza Mitigation Options: A Case Study of Texas Outbreak", Poster at Agricultural and Applied Economics Association, Annual Meetings, Milwaukee, July, 2009
- Egbendewe-Mondzozo, A., L. Elbakidze, B. A. McCarl, "Stochastic Integrated Economic-Epidemic Modeling of Avian Influenza Mitigation Options: A Case Study of Texas Outbreak", Poster at Homeland Security Summit, Washington D.C, March, 2009
- Hagerman, A., L. Elbakidze, B. A. McCarl, L. Highfield, "Economics Impact Analysis of Foot and Mouth Disease in Texas High Plains", A poster presentation at the Second Annual

Department of Homeland Security University Network Summit, Washington DC, March 19-20, 2008

Elbakidze, L., and A. Egbendewe-Mondzozo, "Critical Components of Preparedness and Response for Avian Flue Mitigation within the Poultry Sector", Poster presentation at the Annual Meetings of American Agricultural Economics Association, Portland, OR, July 2007

Elbakidze, L., "Subsidizing Agricultural Carbon Sequestration: Consideration of Externalities." Selected Poster Presentation. Agriculture Program Conference. Texas A&M University. College Station, TX. January, 2004.

### **ARTICLE IN POPULAR PRESS**

McCarl, B.A., L. Elbakidze, and Y.H. Jin. "Preparedness Investments versus Response Expenditures for Animal Disease Mitigation." Department of Homeland Security News Item, 2006.

### **SERVICE AND MEMBERSHIP IN PROFESSIONAL SOCIETIES**

#### ***COMMITTEE ASSIGNMENTS:***

- Division Peer Review Committee, Resource Economics and Management, WVU, 2016
- REM Committee on graduate energy-related curricula, Resource Economics and Management, WVU, 2016
- PhD program prelim exam committee member, Agricultural and Resource Economics, WVU, 2015-present
- Graduate Committee member, Agricultural and Resource Economics, WVU, 2015-present
- Chair of the graduate committee, Agricultural Economics and Rural Sociology, University of Idaho, 2013-2015
- University Committee for General Education (UCGE), University of Idaho, 2011-2014
- Graduate Admissions and Teaching Committee, Department of Agricultural Economics and Rural Sociology, University of Idaho, 2008-2015.
- Outstanding Graduate Student Award Committee, Department of Agricultural Economics and Rural Sociology, University of Idaho, 2008-2015
- Faculty Search Committee, Department of Agricultural and Applied Economics, University of Idaho, 2012-2013
- Outstanding Technical Lab Assistant Award, College of Agriculture and Life Sciences committee, University of Idaho, 2011
- Administrative assistant hiring committee, Department of Agricultural Economics and Rural Sociology (2011)
- Technical Lab Support Staff Award Committee, College of Agricultural and Life Sciences University of Idaho. Spring 2010.

- Graduate program assessment rubric committee, Department of Agricultural Economics and Rural Sociology, University of Idaho, 2008
- Graduate Student Section, Agricultural and Applied Economics Association, Member 2008-20012
- Graduate Student Section, Agricultural and Applied Economics Association, Chair 2009-2010

**PROFESSIONAL AND SCHOLARLY ORGANIZATIONS:**

*Agricultural and Applied Economics Association (AAEA), Member*

- Selected Presentations Committee, 2017-2020
- Chair, Selected Presentations Committee, 2018-2019
- Reviewer – Selected paper sessions, Annual Meetings 2010, 2011, 2012, 2013, 2014, 2015, 2016
- Session organizer and moderator, Joint annual Meetings of the American Social Science Association/American Economic Association/Agricultural and Applied Economics Association, January 2016.
- Organizer of Graduate Student Section (AAEA-GSS) case study competition at the AAEA annual meetings 2009, 2010, 2011
- Advisor, Graduate Student Section (AAEA-GSA), 2008 – 2012
- Organizer and moderator of principal paper session entitled “Effects Of Biosecurity Risk and Food Scare Events on Food Prices and Demand” at the annual meetings of the AAEA, Orlando, FL, July 2008
- Organizer of Invited paper session entitled “Measuring WTP for Animal Welfare in Agricultural Production: the Role of Information and Preference Instruments” at the annual meetings of the AAEA, Pittsburgh 2011

*Western Economics Association International (WEAI)*

- Session Chain and Discussant at the WEAI Annual Conference, San Francisco, 2012

*Western Agricultural Economics Association, Member*

- AERS-UI representative, and council member, at the WAEA – 2011-2015
- Reviewer – Selected paper sessions, annual meetings 2011, 2013

*WERA\_TEMP1902: Agricultural Bioethics. Multistate Research Coordinating Committee and Information Exchange Group*

- Member, October 2006 to September 30, 2011

*South-Western Social Sciences Association,*

- Discussant, “Natural Resource Economics” session, Annual Meetings, Corpus Christi, (03/2004)
- Discussant, “Agricultural Economics III” session, Annual Meetings, New Orleans, (03/2005)

- Organized Session Chair, “Agricultural Bioterrorism” session San Antonio, (04/2006)

**REVIEWER (academic journal reviewer service in italics):**

*Agricultural Economics* (2017, 2015 twice, 2014)  
*Agriculture, Ecosystems & Environment* (2017, 2016)  
*American Journal of Agricultural Economics* (2016 three reviews, 2015, 2014, 2013, 2005)  
*American Journal of Potato Research* (2008)  
*Applied Economic Perspectives & Policy* (2017, 2015 twice, 2012)  
*Aquaculture Economics & Management* (2012)  
*Canadian Journal of Animal Science* (2017)  
*Choices* (2008, 2006, 2005 twice)  
*Climatic Change* (2016, 2015, 2014, 2013, 2005)  
*Climate Research* (2009)  
*Ecological Economics* (2015, 2014, 2012 twice, 2011)  
*Environmental and Resource Economics* (2017, 2014)  
*Food Economics* (2006)  
*Forest Science* (2005)  
*Journal of Agricultural and Applied Economics* (2016 twice, 2014 twice, 2013, 2008 three times, 2007)  
*Journal of Agricultural and Resource Economics* (2016, 2014 twice, 2013, 2012, 2010 twice, 2009, 2005)  
*Journal of the American Water Resources Association* (2016)  
*Journal of Contemporary Water Research and Education* (2016, 2013)  
*Journal of Environmental Economic and Management* (2017, 2016, 2015)  
*Journal of Food Distribution Research* (2008, 2007 four times, 2006 twice)  
*Journal of International Agricultural Trade and Development* (2006)  
*Journal of Peace Research* (2011, 2010)  
*Journal of Regional Analysis & Policy* (2011)  
*Marine Resource Economics* (2009, 2008)  
*Natural Resource Modeling* (2014)  
*PLOS ONE* (2015)  
*Resource and Energy Economics* (2009)  
*Water Economics and Policy* (2017)  
*Water Resources and Economics* (2014, 2013)  
*Water Resources Research* (2017, 2014, 2012, 2011, 2005)

AAEA Annual Meetings, Selected paper sessions, (2016, 2015, 2014, 2013, 2012, 2011, 2010)  
Binational Agricultural Research and Development Fund US-Israel (2015)  
NSF EPSCoR Nevada Seed Grant (2009)  
NSF, Engineering and Education for Sustainability (SEES) Fellows program (2013)  
UI, Graduate Student Grant Program, University of Idaho, Reviewer (2011)  
UI, Office of Research and Economic Development, Seed Grant program (2014)  
USDA/NIFA: National Needs Fellowship Grants (2011, 2010)  
USDA/NIFA, AFRI foundational grants program (2014)  
WAEA Annual Meetings, Selected paper sessions (2014, 2013, 2011)  
WVU, Davis College Student Research and Creative Scholarship Day, graduate student presentations judge, 2016, 2017



WVU, PSCoR (Program to Stimulate Competitive Research), Office of Research (2017)