

University of Wyoming
Economics Department

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EDUCATION	<i>PhD Economics</i> , University of Wyoming			expected
	Dissertation: Ecosystem externalities: Timing, location & intensity of human disturbances Committee: David Aadland (Chair), John Tschirhart (Co-Chair), Jo Albers, & David Finnoff			Dec 2018
EDUCATION	<i>BS Economics</i> , CIDE Center for Research and Teaching in Economics			2008
	Research Essay: Identification of limit cycles in natural resources economics. The case of phosphorous fixation in agricultural soils Committee: Ricardo Smith-Ramírez (Chair), Juan M. Torres-Rojo, & Víctor Carreón-Rodríguez			
FIELDS	Interdisciplinary: Economics & Ecology Computable General Equilibrium Models	Spatial Economics Land-Use Models	Ecosystem Services Economic Valuation	
PROFESSIONAL & RESEARCH EXPERIENCE	<i>Research assistant</i> to Dr. Aadland and Dr. Tschirhart, University of Wyoming			2013
	Project: An economic/ecological analysis of externalities associated with energy development in the Atlantic Rim Natural Gas field (WY) Objective: Calculate the impact of energy development on ecosystem services by using a predator-prey model in a general equilibrium framework.			- 2017
	<i>Director of econometrics & geomatics</i> , Institute of Ecology and Climate Change, Mexico Main activities: Run a model of land-use change and create a map of deforestation risk. Analyze and design surveys related to sustainable finance, WTP for whale watching, socio-economic data of forest landowners and fishers, endangered species, and green jobs.			2008 - 2012
PROFESSIONAL & RESEARCH EXPERIENCE	<i>Coordinator of Institutional Actions</i> , Mexican Ministry of Environment and Natural Resources			2017
	Main activities: Analyze the environmental context and policies in Mexico: public budget, 2030 Agenda; OECD recommendations. Coordinate the process of projects with international funding: ecological connectivity, productive landscapes, and oceans.			- Present
PUBLICATIONS	Muñoz-Piña, C., Rivera, M., Cisneros-Pineda, A., & García, H. 2011. Challenges of focalizing the payment for environmental services program in Mexico. <i>Revista Española de Estudios Agrosociales y Pesqueros</i> . Abstract: The selection criteria under the Payment for Hydrological and Environmental Services program in Mexico are analyzed to measure their congruency with the main objective of the program. While almost 50% of the weight is given to criteria associated to hydrological importance and risk of deforestation in 2016, over 80% of the weight is given to administrative and non-relevant criteria in 2010. The increase of focalization efficiency is significant, when only primary criteria are considered.			

RESEARCH PAPERS	Wildlife migrations and human disturbances: A spatial general equilibrium approach to identifying social costs , supervised by David Aadland	
	Abstract: Using a general equilibrium and spatial model, the ecological and economic impacts of human disturbances affecting the migration of mule deer in a sage brush ecosystem are estimated over a 2x4 grid. The model links optimizing behavior to the species' dispersion and predator-prey dynamics in order to track their populations, biomasses and ecosystem services. The wildlife migration is driven by the changes of forage associated with variations of temperature and sun's energy over an annual cycle. By considering the timing, location, and intensity of different of the analyzed disturbances (inside cells and at their borders, hunting, climate change), their social cost can be efficiently mitigated.	
RESEARCH PAPERS	Ecological impacts of energy development and other human disturbances in a rangeland ecosystem , supervised by David Aadland & John Tschirhart, <u>revised and resubmitted to <i>Ecological Applications</i></u>	
	Abstract: Using a general equilibrium model, the impacts of energy development (ED) from the Atlantic Rim Natural Gas project are estimated. The impacts are measured in terms of ecosystem services: existence value, hunting net benefits, and cattle-grazing profits. The simulation tracks the biomasses and populations of 13 species in the sagebrush ecosystem when sage-grouse and elk avoid disturbed areas by ED; habitat loss and changes in the relative scarcity of prey drive the results. For the study area, the present-value loss in ecosystem services from ED after coordination among government agencies, and under two different species' population constraints, is between \$60 and \$90 million.	
TEACHING	<i>Instructor</i> , Principles of Microeconomics, University of Wyoming	Fall 2015
	<i>Teaching Assistant</i> to Dr. Robert Godby, Principles of Macroeconomics, University of Wyoming	Spring 2013
CONFERENCES	International Conference on Biodiversity and Sustainable Energy Development, Spain	2014
	Topic: Impacts of energy development on the provision of ecosystem services	
	Workshop at the Latin American and Caribbean Environmental Economics Program, Costa Rica	2014
	Research proposal: Fragmentation of the Jaguar habitat in the Tropical Forest Lacandona	
	International negotiations representing the Mexican Government, Germany	2012
Topic: Adaptation to climate change for countries with coasts		
COP16 side event of the International Centre for Trade and Sustainable Development, Mexico	2010	
Topic: Challenges and opportunities for moving towards a low carbon economy		
PERSONAL INFO & SKILLS	Citizenship & Languages:	
	Spanish (Mexican citizen), English (Advanced), German (Advanced C1)	
	Statistical and Programming Skills:	
	Mathematica, Matlab, ArcGIS 10, Stata, Gauss, LaTeX	
	Interests:	
	Volunteer with the NGO <i>Un techo para mi país</i>	2011-2012
	Member of the student council during university and high-school	2003,2006
REFERENCES	Prof. David Aadland (Chair)	Prof. John Tschirhart (Co-Chair)
	Dept. of Economics, University of Wyoming (307) 766-4931, aadland@uwyo.edu	Dept. of Economics, University of Wyoming (307) 766-4931, jtsch@uwyo.edu
	Prof. Klaas Van't Feld	Prof. David Finnoff
	Dept. of Economics, University of Wyoming (307) 766-3143, klaas@uwyo.edu	Dept. of Economics, University of Wyoming (307) 766-5773, finnoff@uwyo.edu