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Janak R. Joshi

Curriculum Vitae

September 2017

Education

PhD, Economics, University of New Mexico, UNM, USA, Spring 2018 (anticipated)
Dissertation Title: Essays on Natural Resource Economics and Environmental Policies
Dissertation Advisors: Janie Chermak, Jingjing Wang, Jennifer Thacher, Bruce Thomson
MA, Economics, University of New Mexico, UNM, USA, 2014
MA, Economics (2012) and BA, Mathematics (2009), Tribhuvan University, Nepal

Research and Teaching Interests

Environmental and Natural Resources Economics, Econometrics, Microeconomics, Industrial Organization, Mathematical Economics, Sustainable Development, Experimental Designs, Public Economics

Peer-Reviewed Publications

Joshi, J., M. Ali & R. Berrens, (2017). Valuing farm access to irrigation in Nepal: A hedonic pricing model. Agricultural Water Management, 181, 35-46.

Joshi, J. & A. Bohara, (2017). Household preferences for cooking fuels and inter-fuel substitutions: Unlocking the modern fuels in the Nepalese household. Energy Policy, 107, 507-523.

Other Publications

"Exploring policy alternatives for controlling nitrate pollution from New Mexico's dairies." 2015, NM Water Resources Research Institute, NMSU & UNM. (**peer-reviewed technical report**- with J. Wang).

"The heart of gendered justice for women and girls in New Mexico: Intersectionality, economic security, and health equity." 2017, UNM, RWJF & Womens.org. (**peer-reviewed policy report**- with L. Stone, C. Fuentes, N. Lopez & F. Castillo).

"Policy effectiveness, spatial dependencies and energy market." The New Mexico Journal of Science, volume 51, 2017. (proceedings- forthcoming).

"Analyzing temporal dynamics of natural gas demand in New Mexico." The New Mexico Journal of Science, volume 50, 2016. (proceedings- with J. Chermak & J. Thacher).

"Economic impact of natural gas production in the San Juan Basin." The New Mexico Journal of Science, volume 49, 2015. (proceedings- with J. Chermak & J. Thacher).

"Integrated environmental and economic assessment of using dairy waste for algae

bio-energy production in New Mexico."The New Mexico Journal of Science, volume 48, 2014. (proceedings- with J. Wang).

"Preferences on energy sources, tradeoffs, and how they vary across New Mexico." The New Mexico Journal of Science, volume 48, 2014. (proceedings- with K. Walter, J. Chermak & J. Thacher).

Working Papers

"Health vs. hunger: The relationship between caloric availability and macro- and micronutrient response to income for a sample of Nepalese households." (***R&R***: Agricultural Economics- with M. Ali and K. Villa).

"Dairy manure management coupled with renewable energy production: An environmental and economic assessment of large dairies in New Mexico."(***Under Review:*** *Energy Economics*- with J. Wang).

"Policy effectiveness, spatial dependencies and energy market: Evidence from the renewable portfolio standard." [***Under Review****: Journal of Environmental Economics and Management*].

"Analyzing temporal and spatial dynamics of sectoral natural gas demand across the United States." (manuscript in preparation- with J. Chermak & J. Thacher).

"Self-reported health and nutrient intake: do perceptions matter?" (manuscript in preparation- with M. Ali).

Works in Progress

"Sustainable energy transition, environmental externalities and economic policies: An analysis using dynamic optimal control modeling."

"An integrated optimization modeling for microalgae and bio-energy: An environmental and economic assessment."

Integrated modeling and policy evaluation for sustainable food, energy and water systems." (with J. Wang).

"Non-market valuation of recreational freshwater fishing in the United States: Evidence from the spatial count models."

Research and Teaching Experience

Research Assistant, UNM: Funded Projects

"The Social and Natural Science Nexus, Energize New Mexico, New Mexico's Established Program to Stimulate Competitive Research (NM EPSCOR) & National Science Foundation (NSF Award Number 1345169)." 2014- present, (PI: Janie Chermak).

"Integrated Modeling and Policy Evaluation for Sustainable Food, Energy and Water Systems, Women in STEM (WIS) Faculty Development Fund UNM." Spring 2017, (PI: Jingjing Wang).

"Health and Economic Security Data Analysis Plan in New Mexico, New Mexico Community Foundation (Women.Org)." Fall 2016, (PI: Lisa Stone).

"Policy Alternatives for Controlling Nitrate Pollution from New Mexico's Dairies, New

Mexico Water Resources Research Institute, 2014-2015, (PI: Jingjing Wang).

Primary Instructor, UNM

Econ106: Principles of Microeconomics, Fall 2015 & Spring 2016 (class size: 80-90 students)

Teaching Assistant, UNM

Econ504: Mathematical Economics (Ph.D. core course), 2013
Econ442: Natural Resource Economics and Ecological Modeling, 2014
Econ333: Industrial Organization, 2013
Econ300: Intermediate Microeconomics, 2012
Econ106: Principles of Microeconomics, 2012, 2013, 2014
Econ105: Principles of Macroeconomics, 2012, 2015

Conference presentations

"Policy effectiveness, spatial dependencies and energy market." New Mexico Academy of Science (NMAS) Research Symposium, Nov 4, 2017, Albuquerque, NM.

"Analyzing temporal dynamics of natural gas demand in New Mexico." NMAS Research Symposium, Nov 5, 2016, Albuquerque, NM.

"Dairy manure management coupled with renewable energy production." (i) Western Forest Economists Conference, May 3-4, 2016, University of Washington; (ii) 6th Annual Pacific Northwest Water Research Symposium, Apr 18-19, 2016, Oregon State University & (iii) Shared Knowledge Conference (SKC), Apr 11-15, 2016, UNM.

"Economic impact of the natural gas industry in the San Juan Basin, New Mexico." NMAS Research Symposium, Nov 14, 2015, Albuquerque, NM.

"The energy-water-environment nexus and economic efficiency: Use of system dynamics modeling approach in the San Juan Basin." (i) SKC, Apr 23-24, 2015, UNM & (ii) NM EPSCOR Research Symposium, Apr 17, 2015, New Mexico Tech University.

"Integrated environmental and economic assessment of using dairy waste for algae bioenergy production in New Mexico." (i) 59th Annual New Mexico Water Conference, Nov 18-19, 2014, Santa Fe, NM & (ii) NMAS Research Symposium, Nov 1, 2014, Albuquerque, NM.

Honors, Awards and Grants

First prize winner for paper presentation, NMAS Research Symposium, 2016
NM EPSCOR & NSF research, travel & conference grants (award #1345169), 2014-2017
J. Raymond Stuart (JRS) award in economics, UNM, 2016
Graduate research award, UNM, 2016
Oregon State University Hydrophiles travel & conference grant, 2016
NM WRRI travel & conference grant 2014-2015
PhD comprehensive exam in econometrics passed with distinction, UNM, 2014

Professional Services

Reviewer: Energy Policy
Session Moderator/Poster Judge: 6th PNW Research Symposium, OSU, 2016; NMAS

Research Symposium, Albuquerque, 2017
Vice President: Economics Graduate Student Organization (EGSO) at UNM, 2013-2014

Professional Memberships

American Economic Association
New Mexico Academy of Science
Western Forest Economist
Canadian Resource and Environmental Economics Study Group
New Mexico's Established Program to Stimulate Competitive Research (NM EPSCoR)

Software Skills

STATA, PowerSim Studio, Matlab, ArcGIS, GAMS, LaTeX

Language

English, Nepali (native), Hindi

References

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