

Samrat B. Kunwar

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Education **University of New Mexico (UNM)**, Albuquerque, NM
Ph.D., Economics, *Expected*: July 2018
Primary Field: Environmental & Natural Resource Economics
Secondary Field: Applied Econometrics, International Development and Sustainability

Dissertation Title: Freshwater Conservation, Water Quality Perceptions & Climate Change Adaptation in Nepal

Advisors: [Dr. Alok K. Bohara](#), [Dr. Jennifer Thacher](#), [Dr. Jingjing Wang](#), and [Dr. Yan Lin](#)
Florida International University, Miami, FL
M.A., Economics, May 2013
Coe College, Cedar Rapids, IA
B.A., Economics, Mathematics (Minor), May 2011

Research Interests Environmental and Natural Resource Economics, Applied Econometrics, Sustainable Development, Health Economics

Specific Areas: Nonmarket Valuation; Design of Experiments; Climate Change Adaptations; Global Water, Sanitation and Hygiene; Spatial Analysis; Quality of Life; Coupled Human-Nature Dynamics; Survey Methodology; Urban Resiliency; Citizen Science; Environmental Health Interventions.

Teaching Interests Environmental and Natural Resource Economics, Econometrics, Microeconomics, Development Economics, Mathematical Economics

Publications Neupane, D., **Kunwar, S.**, Bohara, A.K., Risch, T.S., and Johnson, R.L. (2017). "Willingness to pay for mitigating human-elephant conflict by residents of Nepal." *Journal for Nature Conservation*, 36, 65-76.

Kunwar, S.B., Bohara, A.K. (2017) "Climate Sensitivities and Farmland Values in Nepal: A Spatial Ricardian Approach" *Journal of Development and Agricultural Economics*, 9(6) 145-161.

Papers in Progress **Kunwar, S.B.**, Bohara, A.K., Thacher, Jennifer. "Public Preference for Improved Ecosystem Services in Danda River Basin, Nepal: A Choice Experiment Study".

Rahman, M, **Kunwar, S.B.**, Bohara, A.K. "Environmental Attributes and Health Status: A Self-Reported Approach"

Kunwar, S.B., Bohara, A.K. "Statistical Comparison of Synthetic and Observed Climate Data in the Himalayas"

Kunwar, S.B. "Optimal Revenue Sharing Mechanism for Hydroelectricity Power Plants"

**Teaching
Experience**

Independent Instructor

Econ 342: Environmental and Natural Resource Economics
(28 Students) Fall 2017
([Course Website](#))

Econ 106: Introductory Microeconomics (Online)
(43 Students) Fall 2017
([Course Syllabus](#))

Econ 106: Introductory Microeconomics
(130 Students) Spring 2018

Curriculum Builder

Econ 395/595: Problem-based Learning using Data Analytics 2017
([Course Website](#))

Econ 451/551: Sustainable Development Action Lab 2016
([Course Website](#))

Discussion Leader/Teaching Assistant

Econ 408: Time Series Analysis 2016

Econ 409: Intermediate Econometrics 2016

Econ 106: Principle of Macroeconomics 2015, 2016

Econ 105: Principle of Microeconomics 2014, 2015

Econ 508: Econometrics-I 2014

Intermediate Econometrics Summer 2015
(*American Economics Association Summer
Training and Minority Fellowship Program*)
([Post-Program Assessment](#))

**Research
Experience**

Research Assistant

August 2013 - To present

Department of Economics - Nepal Study Center (NSC),
University of New Mexico
Supervisor: Dr.Alok K. Bohara

Past Projects

Resilience of Coupled Natural and Human (CNH) Systems under Climate Change
and Hydropower Development along the Gandaki River, Nepal

Learning beyond the Classroom: An experiential learning that combines research,
eco-adventure, and hands-on community service-learning projects

On-going Projects

Danda Ecological Monitoring Program (DEMP) through *Citizen Science* and its link
with human health, behavior, and awareness.

Development of an Urban Wildlife Refuge in an urban town of Siddharthanagar, Nepal.

Field Experience	Discrete Choice Experiment Survey (Public Preferences for Ecosystem Services in the Danda River Basin, Nepal). (Household Survey: Summer, 2016)	
	Spatial Point Pattern Analysis of Danda Water Quality across the Urban Landscape of Siddharthangar (River Water Quality Assessment: Summer, 2016)	
Grants, Fellowship & Awards	Research Grant	
	Open Society Foundations - Civil Society Scholar Award, \$9500	2015
	(Project: <i>The shifting landscape: urban growth, climate change, pollution and agriculture in the Danda River Basin, Nepal</i>)	
	Fellowship	
	Provost Excellence Award, UNM	2013 - 2017
	(<i>Economics department nomination for graduate student excellence fellowship</i>)	
	Student Awards	
	The Alfred L. Parker Award in Economics, UNM	2017
	The Rogers Research Award, UNM	2016
	The J.Raymond Stuart Award in Economics, UNM	2016
	Other Grants	
	UNM Doctoral Conference Presentation Award, \$700	2017
	UNM Economics. EGSO Grant,\$300	2017
	UNM GPSA. Student Research Grant, \$500	2015, 2017
Conference Presentations	Southern Economic Association (SEA) Tampa, FL	November 2017
	Association for University Business and Economic Research (AUBER) Albuquerque, NM	October 2017
	5 th Workshop on Non-Market Valuation (WONV) Leeds, England	June 2017
	Himalayan Policy Research Conference. Madison, WI	October 2016
	Sustainable Climate Risk-Management. (SCRiM Summer School) Pennsylvania State University, State College, PA	August 2015
Software	STATA, R, ArcGIS, L ^A T _E X, RATS, MATLAB	

References

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Director, Nepal Study Center
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Jennifer Thacher

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Graduate Director
Department of Economics
University of New Mexico

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Jingjing Wang

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Department of Economics
University of New Mexico

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