

Department of Economics  
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**Status: U.S. Lawful Permanent Resident**

## EDUCATION

### West Virginia University, Morgantown, WV

Doctor of Philosophy, Economics

Aug 2016–May 2020 (expected)

Masters of Arts, Economics

Aug 2019

### Tribhuvan University, Kathmandu, Nepal

Master of Arts, Economics

2010-2012

Bachelor of Arts, Economics & Sociology

2006–2009

## RESEARCH INTERESTS

Applied Health, Regional/Public and Energy Economics, Causal machine learning and policy evaluation.

## JOB MARKET PAPER

### *Heterogeneous Treatment Effects of Medicaid and Efficient Policies.*

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**Synopsis:** I use the Oregon Health Insurance Experiment data (random assignment of Medicaid) to estimate the heterogeneous treatment effects of Medicaid on health care use, personal finance, health, and wellbeing. I perform the cluster-robust generalized random forest – a causal machine learning approach to reveal Medicaid reform policies. These reforms prioritize Medicaid allotments to subgroups that are likely to benefit the most and can improve various outcomes variables of interest by about 4% to 10% over a random assignment baseline.

## PUBLICATIONS

Hall, J. and **Shakya, S.** (2019) Federal Regulations and Energy Sectors of the United States: A Panel ARDL Approach. Oil, Gas, and Energy Quarterly. (Accepted for publication.) [Download.](#)

**Shakya, S.**, Nepal, R., & Sharma, K. (2018). Electricity consumption and economic growth: empirical evidence from a resource-rich landlocked economy. International Journal of Global Energy Issues, 41(5/6), 226–247.

**Shakya, S.** (2018) Book review: Currency Politics–The Political Economy of Exchange Rate Policy, The Review of Regional Studies, 2018. [Download.](#)

**Shakya, S.**, & Lama, N. (2014). Possible Decision Rules to Allocate Quotas and Reservations to Ensure Equity for Nepalese Poor. Economic Journal of Development Issues, 17(1), 149–162. [Download.](#)

## UNDER REVIEW

The Dark Side of the Shale Boom–Increased Crime among Economically-small, Relatively Rural American States, Energy Economics, revise and resubmit. [Download.](#)

The Political Economy of Vermont’s Anti-Fracking Movement, with Alexandre Scarcioffolo & Joshua C. Hall, Journal of Public Finance and Public Choice, revise and resubmit. [Download.](#)

Can Trade Networks Explain the Productivity-Compensation Gap?, with Alicia Morgan Plemmons, Regional Science and Urban Economics, submitted. [Download.](#)

Quantifying the Announcement Effects in the US Lumber Market, with Zarina Ismailova, Xiaoli L. Etienne & Fabio Mattos, Canadian Journal of Agricultural Economics, submitted. [Download.](#)

## WORKING PAPERS

Impact of Must-access PDMPs on Prescription Opioid Overdose Death Rates	<a href="#">Download.</a>
California Proposition 8: Voters Reject the Fair Pricing for Dialysis Act, with Tuyen Pham.	<a href="#">Download.</a>
Regional Institutional Quality and Start-up Activities in the US	<a href="#">Download.</a>
Impact of Shale Revolution on Oil and Natural Gas Prices, with Bingxin Li & Xiaoli L. Etienne.	<a href="#">Download.</a>
Efficiency Test of Commodity Futures Market with Feiyu Liu.	<a href="#">Download.</a>

## EXPERIENCES

### Teaching Experiences, West Virginia University

Econ 225: Elementary Business and Economic Statistics (Instructor of Record)	Summer & Fall 2019
Econ 202: Principles of Macroeconomics (Instructor of Record)	Spring 2019
Econ 721: Mathematical Economics (TA, PhD Econ course, teaching 30% of course)	Fall 2018
BUDA 550: Business Data Visualization course of Business (Online course design)	Summer 2017 & 2018
Click here to view:   <a href="#">ggplot2</a>   <a href="#">Shiny Part-1</a>   <a href="#">Shiny Part-2</a>	

**Graduate Research Assistance**, Regional Research Institute (RRI), WVU Aug 2016–Aug 2018.

Opensource development of the WVU Econometric Input-Output (ECIO) model in R and Python.

**Economic Consultant**, National Planning Commission, Nepal Mar 2016–Jul 2016.

I contributed on 14<sup>th</sup> National Plan of Nepal. I developed frameworks to forecast several macroeconomic series and designed the Financial Programming and Policies template recommended by the International Monetary Fund (IMF) for Nepal.

## GRANTS & AWARDS

**National Science Foundation (NSF)**: 2017, 2018, and 2019 under Prof. Usha Haley, Wichita State University (Principal Investigator).

Student Paper Competition at the North American Regional Science Council (NARSC), 2019 – 1<sup>st</sup> Runner-up.

## CONFERENCE PRESENTATIONS

The Southern Regional Science Association (SRSA)	2019, 2018, 2017
The North American Regional Science Council (NARSC)	2019, 2018
Public Choice Society Annual Meetings	2019
YSI North America Convening	2019
Graduate Research Workshop - Institute for Humane Studies	2019
Applied Economics and Regional Science (AERS)	2018, 2017

## PROFESSIONAL SERVICES

Reviewer: Papers in Regional Science, Journal of Regional Analysis and Policy, Contemporary Economic Policy  
 Nepalese Students and Scholars Association of West Virginia University – President (2019-2020); Treasurer (2018-2019); and Officer (2016-2018).

GEMPACK General Equilibrium Modelling Software tutorial developer, acknowledged by GEMPACK team members at Victoria University, Melbourne, Australia.

**REFERENCES**

Dr. Jane E. Ruseski (Chair)  
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