

West Virginia University
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EDUCATION

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| West Virginia University , Morgantown, WV | |
| Doctorate of Philosophy, Economics | Aug 2016–May 2020 (expected) |
| 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 Effects of Medicaid and Efficient Policy Learning: Evidence from the Oregon Health Insurance Experiment. [Download.](#)

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 policy reforms. These reforms prioritize Medicaid allotments to subgroups that are likely to benefit the most and improve average outcomes 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 [Download.](#)
- California Proposition 8: Voters Reject the Fair Pricing for Dialysis Act, with Tuyen Pham. [Download.](#)
- Regional Institutional Quality and Start up Activities in the U.S. [Download.](#)
- How the U.S. Oil and Gas Producers Respond on Prices: A Pre and Post Shale Boom Analysis, with Bingxin Li & Xiaoli L. Etienne. [Download.](#)
- Efficiency Test of Commodity Futures Market with Feiyu Liu. [Download.](#)

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: | [ggplot2](#) | [Shiny Part-1](#) | [Shiny Part-2](#) |

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 14th 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.

CONFERENCE PRESENTATIONS

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

PROFESSIONAL SERVICES

Reviewer: Papers in Regional Science, Journal of Regional Analysis and Policy, Contemporary Economic Policy

SKILLS

Economics: Causal machine learning methods, Panel data analysis, Spatial econometrics, Time series analysis

Software: R, Python, Eviews, Github, \LaTeX

AFFILIATIONS

Southern Regional Science Association (SRSA), Northern Regional Science Association (NARSC), Regional Science Association International (RSIA), American Economic Association (AEA)