

# GHANASHYAM KHANAL

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## RESEARCH INTERESTS

Forest Economics and Policy, Resource Economics, Climate Change, Carbon Markets

## EDUCATION

<b>PhD in Forest Economics</b> , Auburn University, AL, USA	Summer-2025
<i>Dissertation: Essays on Carbon Markets</i>	
<b>Master's in Natural Resources</b> , Auburn University, AL, USA	Dec. 2024
<i>Thesis: A gravity model analysis of trade regulations on wood products exports: Evidence from Cameroon, Ghana, and the Republic of Congo</i>	
<b>Master's in Economics</b> , Tribhuvan University, Kathmandu, Nepal	2014
<i>Thesis: Climate Change Adaptation Undertaken by Small-scale Farmers in Nepal: A Reference from Tinau River Basin</i>	
<b>MA, English Language and Literature</b> , Tribhuvan University, Kathmandu, Nepal	2013
<i>Thesis: Stereotypical Representation of the Non-West in Patricia McCormick's Sold</i>	
<b>One-year Bachelor's in Education, English and Psychology</b>	2010
Mahendra Ratna Campus, Kathmandu, Nepal, Tribhuvan University	
<b>BA, Economics and English</b>	2009
Ratna RajyaLaxmi Campus, Kathmandu, Nepal, Tribhuvan University	

## SCIENTIFIC PUBLICATIONS

### Journal Articles:

\* denotes co-first authorship, \*\* corresponding authorship and \*\*\*sole authorship

- **Khanal, G\***, Zhang, D. and Prestemon, JP (2024). [A gravity model analysis of trade regulations on wood products exports: Evidence from Cameroon, Ghana, and the Republic of Congo](#). *Forest Policy and Economics*, 166.
- **Khanal, G\*\*\***, (2024). [From Backwards to Boardrooms: The Rise of Institutional Investment in Timberland by Daowei Zhang](#), Oregon State University Press (2021). *Journal of Alternative Investment*, 26(3).
- **Khanal, G\***, et al. (2024). [Unlocking Potential: Evaluating Nepal's Cooperative-backed Vegetable Value Chain](#). *Heliyon*.
- Ghimire, P. R., Devkota, N., Maraseni, T., **Khanal, G\*\***, et al. (2024). [Does joint land ownership empower rural women socio-economically? Evidence from Eastern Nepal](#). *Land Use Policy*, 138.
- Mishra, N., Bhandari, N., Marasini, T., Devkota, N., **Khanal, G.**, et al. (2024). [Technology in farming: Unleashing farmer's behavioral intention for the adoption of agriculture 5.0](#). *PLoS ONE*, 19(8).
- **Khanal G\***, et al. (2023). [Managing water scarcity via rainwater harvesting system in Kathmandu Valley, Nepal: People's awareness, implementation challenges and way forward](#). *Environmental Development*, 46.
- **Khanal G\***, et al. (2023). [An investigation of green supply chain management practices on organizational performance using multivariate statistical analysis](#). *Supply Chain Analytics*, 46.
- Aryal, R., et al., (2024). [COVID-19 Effect on Tourism: Measuring Guest Behavior towards Hotel](#)

[Industry Using Ordered Logistic Regression](#). *Economic Journal of Development Issues*, 37.

- Budhathoki, A., et al., (2023). [Determinants of Investors' Awareness of Online Trading in the Nepal Stock Market: An Empirical Assessment Using Binary Logit Model](#). *Quest Journal of Management and Social Science*, 5(2):244-257.
- **Khanal, G\***, et al. (2020). [A Review on Harvesting and Harnessing Rainwater: An Alternative Strategy to cope up with Drinking Water Scarcity](#). *Water Supply*, 20(8):2951-2963.
- Thapa, A., **Khanal, G.\*\***, et al. (2022). [Identifying determinants of sustainable water management at the household level through rainwater harvesting systems in Nepal](#). *Water Policy*, 24 (10): 1676–1691.
- Rajbhandari, S., Devkota, N., **Khanal, G.\*\***, et al. (2022). [Assessing the Industrial Readiness for Adoption of Industry 4.0 in Nepal: A Structural Equation Model Analysis](#). *Heliyon*. 8 (2)
- Devkota, N., Joshi, A., **Khanal, G.\*\***, et al. (2022). [Awareness of Agricultural Entrepreneurship among Youth Farmers: An Empirical Evidence from Western Nepal](#), *Journal of Agribusiness in Developing and Emerging Economies*.
- Maharhan, P., et al (2022). FinTech Adoption among Online Grocery Buyers during COVID-19 Lockdowns in Nepal. *The Journal of Private Enterprise*, 37(2), 57-89.
- **Khanal, G\*\*\***, (2020). [Climate Change Adaptation Undertaken by Small-scale Farmers in Nepal: A Reference from Tinau River Basin](#). *Quest Journal of Management and Social Science*, 2(1):93-105.
- **Khanal, G\*\*\***, (2020). [Socio-economic Status of Dalit Community: An Evidence from Nepal](#). *Journal of Economic Concerns*. 11 (1):103-116
- Tandukar, H., N. Devkota, **Khanal, G.\*\***, et al. (2021). [An Empirical Study in Nepalese Commercial Bank's Performances on Green Banking: An Analysis from the Perspective of Bankers](#), *Quest Journal of Management and Social Sciences*. 3(1):49–62.
- Rajbhandari, S. **Khanal, G. \*\***, S. Parajuli, et al. (2020). [A Review on Potentiality of Industry 4.0 in Nepal: Does the Pandemic Play Catalyst Role?](#), *Quest Journal of Management and Social Sciences*. 2(2):366-379.

### **Book Chapters**

- Devkota, N., R. Rai, **G. Khanal\*\***, et al. (2021). Customers' Perception and Awareness on Green Banking Practices; An Alternative Strategy on Environmental Sustainability, Disruptive Technologies and Eco-Innovation for Sustainable Development, IGI Global.
- Devkota, N., U. Paudel, **G. Khanal\*\***, et al. (2021). [Is Current Understanding Adequate for Green Banking Practices in Nepal: A Lesson Learned](#), *Climate Change and the Sustainable Financial Sector*, IGI Global.

### **Op-ed and Magazine Articles**

- [Climate change: An issue of the climate of justice](#), *Office of Sustainability*, Auburn University, March 13, 2023
- [4 months after climate change COP27: Reasserting relevance to Nepal and beyond](#), *onlinekhabar*, April 1, 2023
- [Sustainable Forest Management: Way to Mitigate Climate Change Effects](#), *The Himalayan Times*, Dec 31, 2021
- [The Dasgupta Review: Implication for Hindu Kush Himalaya](#), *The Himalayan Times*. Aug 05, 2021
- [Local election: Are the Candidates aware of climate issues?](#) *The Himalayan Times*, May 14, 2022

- Sustainable Agriculture: Reducing Poverty, Boosting Environment, *The Rising Nepal*. Jul 16, 2021
- Green Banking: For Fighting Climate Change, *The Rising Nepal*. Apr 09, 2021
- Third Pole Council Fighting Glacier Melting Menace, *The Rising Nepal*. Mar 05, 2021
- COVID-19: Impact on Agriculture And Way Forward, *The Rising Nepal*. June 18, 2021
- Five-step solution to disaster risk management, *my República*, Jul 26, 2020
- Local Govt's Role in Disaster Management, *The Rising Nepal*, Nov 24, 2020

### **Forthcomings**

- Forest Carbon Market: A Review, *Ecological Economics* [Under Review]—**Lead author**
- Industrial Readiness on Artificial Intelligence Adoption in Kathmandu Valley, Nepal: A Structural Equation Model Analysis, *Journal of Knowledge Economy, Springer Nature*, [Under Review] – **Lead Author**
- Stereotypical Representation of the Non-West in Patricia McCormick's *Sold*, *Language, Context and Media* [Under Review]—**Sole Author**
- Enhancing Agricultural Productivity through Improved Fertilizer Accessibility: Insights from a Contingent Valuation Study in Eastern Nepal, *Environmental Development* [Under Review]—**Corresponding Author**
- Resource use tradeoffs: the nexus between environmental vulnerability and agricultural production in a developing mountainous economy, *Ecological Economics* [Under Review]
- Shaping the future of energy: The role of FDI and technological innovation in clean energy use, carbon emissions, and economic growth in emerging Asian economies, *Energy Economics* [Under Review]

### **Working papers**

- Carbon credits and land use change in the US South: Unveiling the potential of economic incentives
- Does the California Cap-and-Trade Program promote green innovation? A difference-in-difference approach
- Comparative analysis of standards and verification procedures in the US Voluntary Carbon Market: Ensuring credibility and legitimacy of carbon offsets
- The role of mineral import demand in shaping clean energy transition: Evidence from the USA
- Decades-long Water Status in Kathmandu Valley: Urban Household's Willingness to Pay for Improved Water Services
- Prediction Analysis of Carbon Emissions of Nepal using the Auto-regressive Integrated Moving Average Approach

## **PROFESSIONAL EXPERIENCES**

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**Graduate Research and Teaching Assistant**, College of Forestry, Wildlife and Environment, Auburn University 2022-Present

**Major Responsibilities:** 1. Conduct research in the field of Forest Economics/Environmental Economics, supporting projects through data collection, analysis, and literature review.  
2. Assist in teaching undergraduate courses, including grading assignments, preparing course materials, and delivering guest lectures, fostering an engaging learning environment for students.

**Presidential Research Fellow**, Auburn University, AL, USA 2022-Present

**Assistant Program Manager**, Pro Public, Kathmandu, Nepal 2018-2021

**Major Responsibilities:** Develop a comprehensive project plan, including goals, objectives, activities, and timelines; Create and manage a detailed budget, ensuring effective utilization of project resources; Establish monitoring and evaluation mechanisms to track project progress and outcomes; Coordinate with project partners

**Head, Department of Economics,** Morgan International College, Nepal 2015 – 2018

**Major Responsibilities:** Teach different levels (10+2 and Bachelor) economics courses, supervise students for career options and extracurricular activities, design and execute research projects, presentations, and public awareness programs

## AWARDS AND ACHIEVEMENTS

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- [Charles D. McCrary Graduate Research, Education and Training \(GREAT\) Annual Fellowship](#), College of Forestry, Wildlife and Environment, Auburn University, AL, USA
- MA Fellowship, Central Department of Economics, Tribhuvan University, Kathmandu, Nepal, 2012-2014
- MS Fellowship, Central Department of English, Tribhuvan University, Kathmandu, Nepal, 2010-2012
- The Great Teacher Award, 2016, Morgan International College, Nepal

## LEADERSHIP

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- **Member, Executive Committee,** [National Young Academy of Nepal \(NaYAN\)](#) 2021-2026
- **President,** Economics Students Association, (August 2014 – Sept. 2015)
- **Secretary,** Lions Club of Kirtipur, Kathmandu, Nepal (2017-2018)

## SEMINAR/CONFERENCE PARTICIPATION

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- **Paper presentation** on *A Review on Harvesting and Harnessing Rainwater: An Alternative Strategy to Cope up with Drinking Water Scarcity* at the webinar on Business Management organized by Meetings International, May 29, 2021
- **Participation** in '*Capacity Development Program on Air Quality Management and Emission Reduction of PM2.5 for Asian Countries*' organized by the Regional Resource Centre for Asia and the Pacific, 13-17 Sept. 2021
- **A webinar on 'Entrepreneurial and Growth Mindset, Teach a Man To Fish,** 2021
- **Participation in 'Data Analysis with SPSS'** Economics Students' Society. 2020
- **A Three-Day Webinar in Journal Article Writing,** Scholar's Association of Nepal, 2020
- Four-day conference on **Global Financial Fall-out: Assessing Impact on Nepalese Economy,** May 20-24, 2016, Kathmandu, Nepal (Organizer- Economic Forum, Student's Union)
- Two-day seminar on **Economic Growth in Nepal: Need for Economic Reforms?** March 5-7, 2015, Kathmandu, Nepal (Organizer- Economics Student's Association)

## LINKS

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[Google Scholar](#), [Research Gate](#), [LinkedIn](#), [Twitter](#)

**Google Scholar citations: 244, h-index:10, i10 index: 10**

## TECHNICAL SKILLS

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MS Office, Excel, Power BI, Tableau, Stata, R, GIS,

## COURSES TAUGHT

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**In the U.S.:** Forest Economics (6400), People and Environment (NATR 2050)

**Abroad:** Microeconomics-Undergrad, Macroeconomics-Undergrad, Principles of Economics-Grade 11, Economics II- Grade 12

## LANGUAGES

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Nepali (*native*), English (*proficient*), Hindi (*fluent*)

## REFERENCES

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**Daowei Zhang**, George Peake Professor & Associate Dean for Research, College of Forestry, Wildlife and Environment, Auburn University, AL, USA

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**Joshua Duke**, Professor, Dept of Agricultural Economics and Rural Sociology, Auburn University, AL, USA

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**Duha Tore Altindag**, Associate Professor, Department of Economics, Auburn University, AL, USA, Email: [altindag@auburn.edu](mailto:altindag@auburn.edu) Contact No.: (334) 844-2929