

# BHUSAL LILA BALLAV

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Website: <https://ballavbabu.github.io/> | Current Location: Tokyo, Japan

## RESEARCH SUMMARY

Quantitative economist specializing in input-output (IO) analysis, global value chains (GVC), and structural transformation in developing economies. Research employs Multi-Regional Input-Output (MRIO) modeling, GVC decomposition techniques, and econometric analysis to examine trade and production networks. Current work focuses on Asia-Pacific economic integration, bilateral income flows, and environmental-economic linkages in global supply chains.

## EDUCATION

### Ph.D. in Economics

October 2022 – September 2025

*Yokohama National University (YNU), Kanagawa, Japan*

- Dissertation: Economic Transformation in South Asia: Insights from Sectoral Analysis and Global Value Chains
- Advisors: Dr. SHRESTHA Nagendra, Dr. ISHIRO Taku, Dr. PARSONS Craig

### M.S. in Digital Business & Innovation

April 2020 – March 2022

*Tokyo International University (TIU), Saitama, Japan*

- Thesis: Relationship between Economic Growth and Unemployment: An Econometric Investigation on Asian Developing Countries

### B.A. in Economics

April 2016 – March 2020

*Tokyo International University (TIU), Saitama, Japan*

- Thesis: Economic Transformation and Its Reflections on Contemporary Nepalese Society

### B.A. in Mathematics

August 2009 – March 2013

*Tribhuvan University (TU), Kathmandu, Nepal*

## RESEARCH EXPERIENCE

### Research Fellow

October 2025 – Present

*Yokohama National University (YNU), Kanagawa, Japan*

Research Topic: A Sector-Level Analysis of Bilateral Income Flow in Asia-Pacific

- Applying multi-regional input-output models to analyze income distribution patterns across Asia-Pacific trade networks using OECD ICIO and ADB MRIO databases

## RESEARCH INTERESTS

- Development Economics (Asia, structural transformation, industrialization)
- International Trade (GVC participation, value-added trade, regional integration)
- Environmental Economics (embodied emissions, carbon accounting in supply chains)

## PUBLICATIONS

### Peer-Reviewed Journal Articles

Bhusal, L. B. (2025). Key sector identification of Nepal: An integrated approach with linkage and hypothetical extraction method. *Journal of Economic Structures*, 14(1), 3. <https://doi.org/10.1186/s40008-025-00346-5>

Bhusal, L. B. (2025). South Asian global value chain integration patterns: A value-added perspective. *Asia and the Global Economy*, 5(2), 100110. <https://doi.org/10.1016/j.aglobe.2025.100110>

### Accepted for Publication

Bhusal, L. B. (2025). Change in the South Asian Construction Sector: Insights from a Structural Decomposition Approach. Accepted for publication in *Environment, Development and Sustainability*.

## WORKING PAPERS

### Carbon Cost of Asian Growth: Mapping Embodied Emissions and Value Added in GVCs

Single-authored. Draft stage. Examines the relationship between economic growth and environmental impacts by tracing embodied carbon emissions through Asian production networks.

### A Sector-Level Analysis of Bilateral Income Flow in Asia-Pacific

Single-authored. In progress. Analyzes sectoral patterns of bilateral income transfers across Asia-Pacific economies using multi-regional input-output decomposition techniques.

## CONFERENCE PRESENTATIONS

- 20th EAEA International Convention, Manila, Philippines (November 2025)
- 9th International Conference on Economic Structures (ICES 2025), Chiba, Japan (March 2025)
- 19th EAEA International Convention, Bangkok, Thailand (November 2024)
- 8th International Conference on Economic Structures (ICES 2024), Osaka, Japan (March 2024)
- CEDECON's Annual International Conference in Economics (CAICE), Kathmandu, Nepal (September 2023)

## GRANTS & HONORS

- Japanese Government (MEXT) Scholarship, fully-funded PhD scholarship (2022–2025)
- Rotary Yoneyama Memorial Scholarship (2020–2022)
- First Prize, University-Level Speech Contest, Tokyo International University (2018)
- Hashimoto Yasuhiko Asia and Africa Scholarship (2017–2018)
- Monbukagakusho Honors Scholarship (JASSO) (2016–2017)

## TECHNICAL SKILLS

### Quantitative Methods:

- Multi-Regional Input-Output (MRIO) Table Analysis, Global Value Chain (GVC) Measurement and Decomposition Techniques, Structural Decomposition Analysis (SDA), Linkage Analysis, Hypothetical Extraction Method

### **Statistical Software:**

- STATA (advanced), R Programming (data analysis and visualization), Econometric modeling

### **Data and Databases:**

- Experience with OECD's IOTs, WIOD, ADB's MRIO databases, Eora Global MRIO, national input-output tables

### **Additional Skills:**

- Data visualization, Web design (WordPress, Wix), LaTeX document preparation

## **TEACHING EXPERIENCE**

### **Teaching Assistant, Statistics (Master's Level)**

July 2020 – January 2023

*Tokyo International University (TIU), Saitama, Japan*

- Assisted in course delivery, graded assignments, and provided academic support to graduate students

### **Teaching Assistant, Business Mathematics (Undergraduate Level)** April 2021 – August 2021

*Tokyo International University (TIU), Saitama, Japan*

- Conducted tutorial sessions and supported undergraduate students in quantitative methods

## **LANGUAGES**

- Nepali & Hindi (Native) | English (Professional proficiency) | Japanese (Professional proficiency)

## **PROFESSIONAL AFFILIATIONS**

- East Asian Economic Association (EAEA), Member
- Pan Pacific Association of Input-Output Studies (PAPAIOS), Member

## **PROFESSIONAL SERVICE**

- Ad-hoc Referee: Foreign Trade Review (SAGE Journals)

## **ADDITIONAL TRAINING & WORKSHOPS**

- Participant, Online Training: "Impact Evaluation Methods: Difference-in-Differences Approach," Asian Development Bank (ADB) (July 2025)
- Participant, 69th Tokyo International Exchange Center Research Presentation (May 2021)
- Participant, DATA CAMP 2019 TOKYO, Toppan Printing Co., Ltd. (November 2019)