

# Lumana Shakya

Raleigh, NC

Email: [lshakya@ncsu.edu](mailto:lshakya@ncsu.edu)

Website: [lumanashakya.github.io](https://lumanashakya.github.io)

## EDUCATION

---

**Ph.D. in Economics**, North Carolina State University, Raleigh, NC

Aug 2021–May 2026 (Expected)

- Dissertation: *"Essays on Climate Change and Health"*
- Committee: Profs. Raymond Guiteras (Advisor), Robyn Meeks, Zachary Brown, Zheng Li & Zhenxuan Wang

**M.A. in Economics**, North Carolina State University, Raleigh, NC

Aug 2021–May 2023

**B.A. in Economics**, Ramapo College of New Jersey, Mahwah, NJ

Sept 2017–May 2021

## RESEARCH FIELDS

---

Environmental Economics, Development Economics

## JOB MARKET PAPER

---

*"Climate Change and Energy Consumption in Bangladesh"*

## PUBLICATIONS

---

*"The effects of orphanhood and lack of parental care on child vaccination: analyses of 189 cross-sectional household surveys from 82 low- and middle-income countries, 2005 to 2022,"* with A. Bolgrien, B. Damte, M. Johri, R. A. Medeiros, and M. Munir, **eClinicalMedicine**, 85, 103314, (July 2025)

## WORKING PAPERS

---

*"Temperature Extremes, Electricity Access, and All-Cause Mortality in Bangladesh"*

*"Routine Disasters: Floods, Human Capital and Adaptation in Bangladesh,"* with R. Guiteras, A. Jina, and A.M. Mobarak

## WORK IN PROGRESS

---

*"Exploring orphanhood and health and education outcomes for children using MICS"*

## RESEARCH EXPERIENCE

---

Summer Fellow, Institute for Social Research & Data Innovation, University of Minnesota

June 2024 – Aug 2024

- Project: *Childhood immunization in IPUMS Global Health* (Advisor: Dr. Anna Bolgrien)
- Documented patterns in global childhood vaccination schedules across 88+ countries (2005-2022) to facilitate the release of vaccination data on IPUMS MICS.
- Created new IPUMS MICS variables to harmonize data management across time and place for global public health research.

## TEACHING EXPERIENCE

---

Independent Instructor, North Carolina State University

Jan 2024 – Present

- Introduction to Agricultural and Resource Economics–Spring 24, Fall 24 (Class sizes: 30-150 students)

Graduate Teaching Assistant, North Carolina State University

Aug 2022 – Dec 2023

- EC 205 Fundamentals of Economics: Fall 22
- EC 201 Principles of Microeconomics, Fall 23
- ARE 336 Introduction to Resource and Environmental Economics: Fall 25
- ARE 312 Agribusiness Marketing: Spring 25

## PROFESSIONAL EXPERIENCE

---

Business Consultant, NJ Small Business Development Center (SBDC)	Jan 2021 – May 2021
<ul style="list-style-type: none"><li>Assisted over a dozen small businesses coping with COVID-19 impacts.</li><li>Conducted market research to assist in drafting business plans and building financial forecasts.</li></ul>	
Financial Planning & Analysis (Part-time), Promotion in Motion/ P.I.M. Brands	May 2019 – Dec 2020
<ul style="list-style-type: none"><li>Assisted in preparing monthly financial report packages and yearly budgets/forecasts for senior management.</li><li>Provided analytical support to the Sales and Marketing departments and built financial models for a new subsidiary.</li></ul>	

## FELLOWSHIPS, AWARDS AND GRANTS

---

NC State University Provost's Doctoral Fellowship	2021-2022
AAEA Teaching Academy Travel Grant	2024
NC State ARE Department Conference Travel Grant	2024
Award for Volunteer Work at NJ SBDC, Consulate General of Nepal, NY	2021
AFT Graduate School Scholarship, Ramapo College	2021

## PRESENTATIONS

---

American Economics Association (AEA) Annual Meeting, Philadelphia, PA	2026
Camp Resources XXXI, Asheville, NC	2025
NCSU Graduate Student Research Symposium, Raleigh, NC	2025
Agricultural & Applied Economics Association (AAEA) Annual Meeting, New Orleans, LA	2024

## SERVICE

---

Referee: Journal of Environmental Economics and Management (JEEM)

## OTHER INFORMATION

---

Technical Skills: Stata, R, Python, Google Earth Engine, EViews,  $\text{\LaTeX}$ , Matlab  
Languages: English (Proficient), Nepalese (Native), Newari (Native), Hindi (Fluent)

## REFERENCES

---

Raymond Guiteras (Advisor)  
Associate Professor  
Dept. of Agricultural & Resource Economics  
NC State University, Raleigh, NC  
[rpguiter@ncsu.edu](mailto:rpguiter@ncsu.edu)

Zachary Brown  
Associate Professor  
Dept. of Agricultural & Resource Economics  
NC State University, Raleigh, NC  
[zsbrown2@ncsu.edu](mailto:zsbrown2@ncsu.edu)

Zhenxuan Wang  
Assistant Professor  
Dept. of Agricultural & Resource Economics  
NC State University, Raleigh, NC  
[zhenxuan.wang@ncsu.edu](mailto:zhenxuan.wang@ncsu.edu)