

Lumana Shakya

PhD Candidate in Economics, North Carolina State University
Raleigh, NC

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EDUCATION

Ph.D. in Economics, North Carolina State University, Raleigh, NC Aug 2021–Present

- 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, minor in Mathematics, Ramapo College of New Jersey, Mahwah, NJ Sept 2017–May 2021
(*Summa Cum Laude*)

RESEARCH FIELDS

Environmental Economics, Development Economics, Global Health

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. **eClinicalMedicine**, 85, 103314, July 2025, doi: 10.1016/j.eclinm.2025.103314. (with A. Bolgrien, B. Damte, M. Johri, R. A. Medeiros, and M. Munir)

WORKING PAPERS

Climate Change and Energy Consumption in Bangladesh (**Job Market Paper**)

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)

WORKS IN PROGRESS

Exploring orphanhood and health and education outcomes for children using MICS

CONFERENCES AND SEMINARS

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

FELLOWSHIPS, AWARDS AND GRANTS

NC State's Center for Environmental Resource Economic Policy (CEnREP) Summer Research Grant 2025

AAEA Teaching Academy Travel Grant 2024

NC State University Provost's Doctoral Fellowship 2021

Award for Exemplary Volunteer Work at NJ SBDC, Consulate General of Nepal, NY 2021

American Federation of Teachers (AFT) Graduate School Scholarship, Ramapo College of New Jersey 2021

NJ Collegiate Business Administration Society Honor Society 2021

TEACHING EXPERIENCE

Independent Instructor, North Carolina State University Jan 2024 – Present

- ARE 201 Introduction to Agricultural and Resource Economics: Spring 24, Fall 24, Spring 26 (Class sizes: 30-200 students)

Graduate Teaching Assistant, North Carolina State University Aug 2021 – Present

- 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, Spring 2026
- ARE 104 Agricultural Business Management: Spring 2026
- ARE 412 Advanced Agribusiness Marketing: Spring 25, Spring 2026
- ARE 455 Agribusiness Analytics: Spring 24

PROFESSIONAL EMPLOYMENT

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 more than 100 countries 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.

Summer Research Assistant, Duke University June 2023 – Aug 2023

- Project: *Randomized Control Trial (RCT) examining uptake of electric induction stove in Nepal* (Advisor: Dr. Robyn Meeks)
- Assisted in the design of the randomized experiment and in the synthesis of literature on clean cooking and adaptive technologies in Nepal and other low- and middle-income countries.

Business Consultant (Volunteer), NJ Small Business Development Center (SBDC) Jan 2021 – May 2021

- Assisted over a dozen small businesses coping with COVID-19 impacts.
- Conducted market research to assist in drafting business plans and building financial forecasts.

Financial Planning & Analysis (Part-time), Promotion in Motion/ P.I.M. Brands May 2019 – Dec 2020

- Assisted in preparing monthly financial report packages and yearly budgets/forecasts for senior management.
- Provided analytical support to the Sales and Marketing departments and built financial models for a new subsidiary.

SERVICE

Referee: Journal of Environmental Economics and Management (JEEM)

OTHER INFORMATION

Technical Skills: Stata, R, Python, Google Earth Engine, EViews, \LaTeX , Matlab

Languages: English (Proficient), Nepalese (Native), Newari (Native), Hindi (Fluent)

REFERENCES

Raymond Guiteras (Advisor)
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