

# Barsha Manandhar

Assistant Professor

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## EDUCATION

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**Doctor of Philosophy in Public Affairs**, Florida International University, USA, *Summer 2021*  
**Dissertation Title:** *Managing Collaborative Networks in Post-Disaster Recovery: A case study of 2015 Nepal Earthquake.*

**Master of Science** in Environment Management, University of Wolverhampton, UK, 2010  
**Thesis Title:** *Effects of Gypsum Wallboard on Splash Erosion on Sandy Loamy Soil in Hilton, Shropshire, UK.*

**Bachelor of Science** in Environment Science, Tribhuvan University, Nepal, 2006

## RESEARCH INTERESTS

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Collaborative Governance, Emergency Management, Disaster Risk and Resilience, Critical Infrastructure Systems, GIS and Mixed qualitative and Quantitative Methods.

## PUBLICATIONS

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### Peer-Reviewed Publications

**Manandhar, B.**, Dongol, Y., & Ganapati, E. (2022). Governing the post-disaster recovery network in Nepal: Organizational challenges of public managers. *International Journal of Disaster Risk Reduction*, 103245.

Mukherji, A., Ganapati, N.E., **Manandhar, B.** (2021). Panacea or Problem: New Governance Structures for Disaster Recovery. *International Journal of Disaster Risk Reduction*, 52, 101960

Zhu, J., **Manandhar, B.**, Truong, J., Ganapati, N. E., Pradhananga, N., Davidson, R. and A. Mostafavi. (2017). Assessment of Infrastructure Resilience in the 2015 Gorkha Earthquake. *Earthquake Spectra*. 33(S1): S147-S165.

Mozumder, P., Rodriguez-Figueroa, L., Quiles-Miranda, M., **Manandhar, B.**, Meng, S., Halim, N. Analysis Health Impacts of Natural Disasters in Puerto Rico for Promoting Resilience. *Natural Hazards Center Public Health Research Award Program Call 3: Research in U.S. Territories, Tribal Areas, and Rural Communities*, 288. Boulder, CO: Natural Hazards Center, University of Colorado Boulder

#### Journal Submission

Mozumder, P., Rodriguez-Figueroa, L., Quiles-Miranda, M., **Manandhar, B.**, Meng, S., Halim, N. (2024). Constraints to Building Resilience in Puerto Rican Health System for Disaster Management. *American Journal of Public Health* (Under Review)

Mozumder, P., Rodriguez-Figueroa, L., Quiles-Miranda, M., **Manandhar, B.**, Meng, S., Halim, N. (2024). Disaster Impact and Health System Resilience: A Case Study of Hurricane Maria in Puerto Rico. *Disaster Medicine and Public Health Preparedness* (Submitted)

#### New Publication in Progress

**Manandhar, B.** Sources and Distribution of External and Internal Funding. In Paul, B and Juran, L (Eds), *The Routledge Handbook of Disaster Response & Recovery*. [Forthcoming 2024]

**Manandhar, B.** Barriers to collaborative: The role of differences and power asymmetries in Nepal's post-disaster recovery network. Draft completed for *Governance*.

**Manandhar, B.** and Dongol, Y. Understanding private housing reconstruction outcomes: A case of 2015 Nepal Earthquake. In preparation for *Disasters*

**Manandhar, B.**, Halim, N., Mozumder, P., Hasan, S., Chatterjee, C. Managing Evacuation Traffic in Rapidly Intensifying Hurricanes: Insights from Florida Emergency Managers. In preparation for *Natural Hazards*

**Manandhar, B.** Understanding emergency logistics management challenges: A case of transportation logistics from the 2015 Nepal Earthquake. In preparation for *Journal of Humanitarian Logistics and Supply Chain Management*.

#### CONFERENCE PRESENTATIONS

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**Manandhar, B.**, Halim, N., Mozumder, P., Hasan, S., Chatterjee, C. Managing Evacuation Traffic in Rapidly Intensifying Hurricanes: Insights from Florida Emergency Managers. *48<sup>th</sup> Annual Natural Hazards Workshop, Broomfield, Colorado, July 2023*

Mozumder, P., Rodriguez-Figueroa, L., Quiles-Miranda, M., **Manandhar, B.**, Meng, S., Halim, N. Analysis Health Impacts of Natural Disasters in Puerto Rico for Promoting Resilience. *48<sup>th</sup> Annual Natural Hazards Workshop, Broomfield, Colorado, July 2023*

**Manandhar, B.**, Understanding barriers to network management: The role of differences and power asymmetries in Nepal's post-disaster recovery network. 52<sup>nd</sup> Southeastern Conference for Public Administration (SECoPA), September 2022, Annual Conference, Lexington, KY

**Manandhar, B.**, Ganapati, N.E. Governance Factors Shaping Post-Disaster Housing Reconstruction in Urban Nepal. 46<sup>th</sup> *Annual Natural Hazard Workshop*, Broomfield, Colorado, July 2021 [Virtual Conference].

**Manandhar, B.**, Ganapati, N.E. Public Managers' Challenges in Network Governance: Managing Multi-Sector Stakeholders in Post-Disaster Recovery in Nepal. *American Society for Public Administration Conference*. April 2021 [Virtual Conference].

**Manandhar, B.**, Ganapati, N.E. Governing the collaborative network: A case study of post-disaster recovery of 2015 Nepal Earthquake. 45<sup>th</sup> *Annual Natural Hazard Workshop*, Broomfield, Colorado, July 2020 [Virtual Conference].

**Manandhar, B.**, Ganapati, N.E. Managing Disaster Governance in Nepal: Interorganizational Collaboration in Post-Disaster Recovery. *American Society for Public Administration Conference*. Anaheim, California, April 2020 [Accepted but canceled due to COVID-19].

**Manandhar, B.**, Haensel, K., Ganapati N. E. The state of Emergency Management Research in Public Administration: What We Study and What We Don't Study. *Southern Political Science Association 91<sup>st</sup> Annual Conference*, San Juan, January 2020.

**Manandhar, B.**, Ganapati, N.E. Governing the collaborative network: A case study of post-disaster recovery of 2015 Nepal Earthquake, *American Society for Public Administration Conference*, Washington D.C, March 2019.

Ganapati, N. E., **Manandhar, B.**, Zhu, J., Mostafavi, A., & Pradhananga, N. Vulnerable Households in Nepal: Factors Enabling or Hindering Their Recovery After the 2015 Earthquake, *American Society for Public Administration Conference*, Atlanta, March 2017.

## PROFESSIONAL EXPERIENCE

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### Teaching Experience

- **Adjunct Professor**, Florida International University, Miami, FL

Courses taught (Undergraduate, Fall 2021, Spring 2022, online)

- PAD 4723- RVC 1218 Applied Research Methods for Policy and Management (Course Designed and Developed Syllabus).
- PAD 4414- RVBB 1221 Personal Skills for Administrators.
- PAD 4223-RVBB 1221 Public Sector Budgeting

Course taught (Undergraduate, Summer 2021- Summer 2022, online)

- PAD 4723- RVC 1215 Applied Research Methods for Policy and Management

- **Graduate Teaching Assistant**, Florida International University, Miami, FL

August 2016-July-2020. Assisted faculty members with development of course plans, preparation of lesson materials, prepare and design online classes, and grading.

- GRAD, PAD 6277, Public Finance and Budgetary Process (Fall, 2016)
- GRAD, PAD 6306, Policy Analysis and Program Planning (Spring, 2017)
- Capstone UNDERGRAD PAD 4934, Integrative Seminar in Public Administration (Fall, 2017)
- GRAD, PAD 6053, Political Social and Economic Context of Public Administration (Fall, 2018)
- GRAD, PAD 5435, Administration and the Role of Women (Fall, 2018)

### Non-academic Professional Experience

- **Research Associate** in the Institute of Environment, Florida International University, (Summer 2022 to current). Responsibilities include survey design, semi-structured interviews with emergency managers of Florida and Louisiana states, qualitative and quantitative analysis of surveys and interviews, and the preparation of research papers related to a NSF's project on Strengthening American Infrastructures and Natural Hazard Center funded project on Public System Resilience in Puerto Rico.
- **Graduate Assistant** in the Maurice A. Ferré Institute for Civic Leadership, Florida International University (Summer 2021). Responsibilities include preparing initial materials related to the mission, vision, and objectives of the institute.
- **Graduate Intern** in the Department of Environment Health & Safety, Florida International University. (Summer 2021). Revise and develop Environmental Health & Safety Continuity of Operation Plan (COOP plan)
- **Program Officer** in an NGO - Group of Helping Hands (**SAHAS-NEPAL**). Responsibilities include preparing project reports; visit project site; attend project related meetings, seminar, workshop, and conferences. (Jan 2013 – Oct 2013).
- **Assistant Program Officer** in an NGO - **ECO-Nepal**. Responsibilities include preparing progress and final report of project on Local Disaster Risk Reduction and Management Program (LDRMP) of Rukum, Kailali and Bardia districts of Nepal. (May 2012- Dec 2012).
- **City Volunteer** in Kathmandu Metropolitan City (KMC) and Clean Energy Nepal (CEN). Responsibilities include conducting awareness program related to different environment issues (Mar 2012- May 2012).

- **Research Assistant** in the Center of Research for Environment Energy and Water (CREEW). Responsibilities include research on the assessment of water availability and water demand in Kathmandu Valley (Dec 2011- Jan 2012).
- **Independent Consultant** responsible for conducting Initial Environment Examination (IEE) of hospitals in Nepal (June 2011- Nov 2011).
- **Research Laboratory Assistant** in Environment and Public Health Organization (ENPHO), Nepal (Jan 2007 – Feb 2007).

## FELLOWSHIPS AND SCHOLARSHIPS

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- Dissertation Year Fellowship, Florida International University, \$16,600 Fall- Spring (2020)
- UWS-Charles Perry Graduate Scholarship, Florida International University, \$3000 Fall Spring (2020)
- Fu-Foundation Scholarship, Florida International University, \$250 Summer (2019)

## ANALYTICAL SKILLS

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- Qualitative data analysis using NVIVO.
- Quantitative data analysis using STATA and R
- Spatial analysis using ArcMap, ArcGIS pro, ArcGIS online, Survey 123

## PROFESSIONAL TRAININGS

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- Critical Infrastructure Security and Resilience: Achieving Results through Partnership and Collaboration, IS-00913. a. Emergency Management Institute. Federal Emergency Management Agency (FEMA), March 2022 (Certificate Received).
- An Introduction to the National Incident Management System, IS-00700. b. Emergency Management Institute. Federal Emergency Management Agency (FEMA), January 2022 (Certificate Received).
- Introduction to Incident Command System, ICS-100. Emergency Management Institute. Federal Emergency Management Agency (FEMA), December 2021(Certificate Received).
- *The Disaster Mitigation Act of 2000: Twenty Year of Promise, Pitfalls, and Progress from a Planning Perspective*. Making Mitigation Work Webinar Series, Natural Hazard Center, University of Colorado Boulder. October 13, 2020 (Certificate Received).
- *The Opportunities and Challenges of Implementing Buyouts*. Making Mitigation Work Webinar Series, Natural Hazard Center, University of Colorado Boulder. December 8, 2020 (Certificate Received).

- *Climate Change Research from Mitigation Matters*. Making Mitigation Work Webinar Series, Natural Hazard Center, University of Colorado Boulder. March 9, 2021 (Certificate Received).
- *Implementing Mitigation Near and Far: U.S. States, New Zealand, and Applied Research*. Making Mitigation Work Webinar Series, Natural Hazard Center, University of Colorado Boulder. April 13, 2021 (Certificate Received).
- *Mapping Risk: The National Risk Index for Natural Hazards*. Making Mitigation Work Webinar Series, Natural Hazard Center, University of Colorado Boulder. May 11, 2021 (Certificate Received).
- *Mitigation Champions: Making the case for Risk Reduction and Equitable Disaster Recovery*. Making Mitigation Work Webinar Series, Natural Hazard Center, University of Colorado Boulder. June 8, 2021 (Certificate Received).