

## Fahmida Akhter

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### EDUCATION

<b>Louisiana State University</b>	Baton Rouge, LA, USA
<i>Ph.D. Environmental Science</i>	2022 - Ongoing
Dissertation: <i>Benefit-Cost Analysis in Flood Mitigation Programs Incorporating Ecosystem Services and Equity</i>	
Academic Advisor: <i>Dr. Thomas Douthat</i>	
<b>Hiroshima University</b>	Hiroshima, Japan
<i>Masters in Environmental Economics</i>	2019 - 2021
Dissertation: <i>Impact of Mothers' Voucher Program on Maternal Care in Bangladesh</i>	
Academic Advisor: <i>Dr. Kaneko Shinji</i>	
<b>Rajshahi University of Engineering &amp; Technology (RUET)</b>	Rajshahi, Bangladesh
<i>Bachelor of Science (B.Sc.) in Civil Engineering</i>	2006 - 2012

### PUBLICATIONS

#### Published

**Akhter, F.** and Douthat, T. 2023. Stakeholder Perceptions about Incorporating Externalities and Vulnerability into Benefit–Cost Analysis Tools for Watershed Flood Risk Mitigation. *Sustainability*. 15(9), 7473.

**Akhter, F.** and Dakua M., Biswas P.P., Shihab R.M., 2013. Potential of Rainwater Harvesting In Building To Reduce Over Extraction Of Groundwater In Urban Areas Of Bangladesh, *European Scientific Journal*, December 2013, ISSN 1857-7431.

### PRESENTATIONS

#### Conference Presentations

Society for Freshwater Science (SFS). "A Logic Model Approach to Evaluate How Ecosystem Services and Equity Fit into Benefit-Cost Analysis Frameworks for Flood Mitigation Projects" May, 2024, Pennsylvania, USA.

28th International Interdisciplinary Conference on the Environment - Living on the Edge of Climate Change and Coastal Communities. "A Logic Model Approach to Evaluating How Ecosystem Services and Equity Fit into Benefit-Cost Analysis Frameworks" October 19-21, 2023, Online Conference, USA.

European Water Association Conference, EWA – WMCC 2016, Water and wastewater management – challenges in cold climate, *"Adaptability of approaches of wastewater management in cold climates to other areas: Case of Bangladesh - Urban and Industrial Context."* June 25-27, 2016, Spitsbergen, Norway.

8th International perspective on Water Resources & the Environment (IPWE 2016), *"Integration of Solar Panels with UV Disinfection system for Safe Water Supply in Coastal Area of Bangladesh."* January 4th-6th, 2016, Colombo, Sri Lanka.

11th International Symposium on Southeast Asian Water Environment, *"Feasibility Study of Rain Water Harvesting System as a Supplementary Source of Water in Residential and Commercial Building in Dhaka City."* November 2014, Bangkok, Thailand.

Gobeshona-Making Research on Climate Change in Bangladesh More Effective, *"Evaluation of Spatial Interpolation for Finer Resolution Of Rainfall Estimation: A Case Study of Rainfall Parameter Change in Bangladesh."* January 2015. Dhaka, Bangladesh.

### Poster Presentations

State of the Coast (SOC2023), *"Incorporating Alternatives for Ecosystem Services and Equity in Benefit Cost Analysis (BCA) for Flood Hazard Mitigation."* Ecology, Evolution and Behavior Fall Lecture Series, May 31 -June 2, 2023.

Coastal Connections at LSU – Infographic Challenge (2022), *"What is missing from the FEMA BCA Toolkit?"* September 30, 2022.

## GRANTS AND AWARDS

Conference Travel Grant for Infographic Challenge, Sea Grant Louisiana (\$500)	2022-2023
Award for Sustainable Environment on Earth, Louisiana State University	2022-2023

## RESEARCH AND WORK EXPERIENCE

<b>Louisiana State University</b>	Baton Rouge, LA
Graduate Assistant, NOAA Restore Program	2022-2023
Create Frameworks for Benefit-Cost Analysis. Analyze database and synthesize results into publications.	
Academic advisor: Thomas Douthat	

<b>Bangladesh University of Engineering and Technology (BUET)</b>	Dhaka, Bangladesh
Project Coordinator	2013-2019
Organized workshop regarding Rainwater harvesting and Wastewater treatment	
Academic advisor: Mafizur Rahman and Harsha Ratnaweera	

## TEACHING EXPERIENCE

### Teaching Assistant

**Lousiana State University**  
**Environmental Science Department**

Baton Rouge, LA  
Fall 2024

*ENVS 2126 Environmental Impact Microbes, Instructor: Slawomir Lomnicki*

**Lousiana State University**  
**Environmental Science Department**

Baton Rouge, LA  
Spring 2023

*ENVS 2126 Environmental Impact Microbes, Instructor: Rebecca De Jesus Crespo*

## SYNERGISTIC ACTIVITIES

**Vice President Coast and Environmental Graduate Organization (CEGO) Louisiana State University** 2024

**Cultural Coordinator Bangladesh Student Association (BSA), LSU** 2022-2023