

Mumtahina Riza
Graduate Research Assistant
Department of Applied Ecology
North Carolina State University; Raleigh, NC 27695, USA
Email: mriza@ncsu.edu; Website: <http://www.rizabd.com/>

EDUCATION

North Carolina State University, USA August 2021-Continue
MS in Biology (Integrative), Anticipated graduation in Spring 2023 CGPA: **3.80** (Up to Spring 2022)

Thesis (ongoing): Risk screening of Phosphorus (P) capturing materials for eutrophication control: Environmental impacts and sustainable management

Major Advisor: Khara D. Grieger, PhD

Course work (Graduate):

- Foundation of Ecology
- Water Quality Assessment
- Environmental Toxicology
- R coding for Data Management and Analysis (Fall 2022)
- Environmental Risk Assessment
- Statistical Methods for Researchers-I
- Research Ethics
- Environmental Issues in Aquatic Ecology (Fall 2022)

Bangladesh University of Professionals (BUP), Bangladesh March 2021
MSc. in Environmental Science and Management CGPA: **3.98/4.00**

Position: **1st out of 40 students**

Thesis: Phytoremediation of heavy metal contaminated soil located around textile industries

Supervisor: Dr. Sirajul Hoque

Relevant course work (Graduate):

- Fundamentals of Environmental Sciences
- Research Methodology
- Environmental Pollution Mitigation Strategy
- Climate Change and Disaster Management
- Industrial Waste Treatment and Management
- Ecosystem and Natural Resource Management
- Environmental Monitoring and Assessment
- GIS and RS for Environmental Management

Bangladesh University of Textiles, Bangladesh June 2014
BSc. in Textile Engineering, Position: **1st out of 40 students** CGPA: **3.84/4.00**

PUBLICATIONS

Riza, M., & Hoque, S. (2021). Phytoremediation of Copper and Zinc Contaminated Soil around Textile Industries using *Bryophyllum pinnatum* Plant. *Journal of Ecological Engineering*, 22(4), 88–97.

<https://doi.org/10.12911/22998993/134035>

Riza, M., Ehsan, M. N., & Hoque, S. (2021). Portrayal of Textile Based Pollutants and its Impact on Soil, Plants and Fisheries. *Nature Environment and Pollution Technology*, 20(3). <https://doi.org/10.46488/NEPT.2021.v20i03.038>

RESEARCH & PROFESSIONAL EXPERIENCE

- **2021- Present, Graduate Research Assistant**, Science and Technologies for Phosphorus Sustainability ([STEPS](#)), Department of Applied Ecology, North Carolina State University
- **2021- Present, Treasurer**, Society of Risk Analysis- Research Triangle- Regional Organization
- **2015 – 2021, Lecturer**, Department of Textile Engineering, Southeast University, Dhaka, Bangladesh

AWARD AND HONORS

- Aug 2021- Aug 2023, **Graduate Research Assistantship**, Annual \$28,600 + Tuition and Health insurance, Department of Applied Ecology, NCSU

- 2021 Fall & 2022 Spring, American Rescue Plan (ARP) Emergency Fund, Office of Scholarships and Financial Aid, NCSU. \$750+\$750
- 2017, **Prime Minister Gold Medal Award 2014** for holding **1st position** in the Faculty of Textile Engineering, Bangladesh University of Textiles, University Grants Commission, Bangladesh
- 2010 - 2013, Student Merit Based Academic Scholarship, Bangladesh University of Textiles
- 2006, Exim Bank Merit-Based Scholarship, Exim Bank Ltd. Bangladesh
- 2006, Prothom Alo Meritorious Student Award, Prothom Alo, Daily Newspaper

PRESENTATION

Riza.M, Grieger. K, 2022. Phosphorus-capturing materials for eutrophication control: Environmental risk, impacts, and implications for sustainable management, NC State University. Poster

Riza.M, 2021. Phytoremediation of Copper and Zinc Contaminated Soil around Textile Industries using *Bryophyllum pinnatum* Plant. Research Triangle Regional Organization, Society for Risk Analysis, Poster

Riza.M, 2022. Risk screening of phosphorus (P) capturing materials for eutrophication control: Environmental impacts and sustainable management. SRA Annual Meeting, Tampa, Florida. Abstract. *Accepted*

TECHNICAL REPORT

Grieger, K., **Riza, M.**, Horgan, M., Merck, A. (2022). Society for Risk Analysis Strategic Initiative Funding: Final Report. Prepared for the Society for Risk Analysis, grant no. 2020-1006, SRA internal account code 879-265

PROFESSIONAL DEVELOPMENT & OUTREACH ACTIVITIES

Present- **Student organizing committee member**, Sustainable Phosphorus Summit, Raleigh, NC 2022

2022- Present, **Seminar Coordinator**, Graduate Student Association of Biology, NCSU

2022- Present, **Patron Representative**, Feed the Pack, NC State University, 2022-2023 Board

April 2022 NC State Feed the Pack's Panel Discussion with Multicultural Student Affairs

Skills

- MS Office (Word, Excel, PowerPoint)
- Data visualization by R
- ArcGIS Pro
- Atomic Absorption Spectrophotometer (Varian AAS)
- Color Measurement Spectrophotometer (Datacolor)

CERTIFICATION & TRAINING

Collaborative Institutional Training Initiative (CITI program), NCSU Office of Information Technology (OIT) Data Security, Gallup Clifton Strength Assessment, NCSU Office for Institutional Equity and Diversity (OIED) Diversity, Equity and Inclusion, How to Structure Results and Discussion Sections, How to Synthesize Literature Reviews, DISC Style Personality Assessment

MEMBERSHIP

2021-present, Student Member, Society for Risk Analysis

Present- Member, Student Leadership Council, Science and Technologies for Phosphorus Sustainability (STEPS)

REFERENCES

Khara Grieger, PhD

Assistant Professor & Extension Specialist in Environmental Health and Risk Assessment, Department of Applied Ecology, NCSU
Email: kdgrieger@ncsu.edu

Dr. JoAnn Burkholder

William Neal Reynolds Distinguished Professor and Director – [Center for Applied Aquatic Ecology](#)
Email: jburk@ncsu.edu

Dr. Tamara Pandolfo

Teaching Assistant Professor
College of Natural Resources
NCSU
Email: tjpandol@ncsu.edu