

PERSONAL INFORMATION



Zakia Sultana

Work Address: Department of Environmental Science and Disaster Management, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj-8100, Bangladesh
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Sex: Female

Nationality: Bangladeshi

EDUCATION AND TRAINING

September 2015 to September 2017	MSc in Tropical Hydrogeology and Environmental Engineering Technical University of Darmstadt, Darmstadt, Germany Result: CGPA 1.72 (Best 1)
April 2017 to September 2017	Master Thesis Section 4.4 Hydrology, GFZ, Potsdam, Germany <i>Responsibility:</i> Data analysis, writing thesis on " Assessment of Business Interruption Due to Floods in Germany Using Random Forest Algorithm " <i>Supervision:</i> Dr. Heidi Kreibich Type: Research Institution
August 2016 to September 2016	Internship Section 4.4 Hydrology, GFZ, Potsdam, Germany Data analysis, Report writing on " Flood Risk Assessment of Dhaka City, Bangladesh " under the supervision of Dr. Animesh Kumar Gain Type: Research Institution
March 2009 to December 2013	BSc in Environmental Science Khulna University, Bangladesh Result: CGPA 3.80 (Best 4), Distinction awarded

WORK EXPERIENCE

12 November 2021 to date	Assistant Professor Department of Environmental Science and Disaster Management Bangabandhu Sheikh Mujibur Rahman Science and Technology University Gopalganj-8100, Bangladesh <i>Responsibilities:</i> Teaching, academic research and administrative activities Type: Academic and Research Institution
27 February 2019 to 11 November 2021	Lecturer Department of Environmental Science and Disaster Management Bangabandhu Sheikh Mujibur Rahman Science and Technology University Gopalganj-8100, Bangladesh <i>Responsibilities:</i> Teaching, academic research and administrative activities Type: Academic and Research Institution
March 2018 to 25 February 2019	Research Assistant Chair of Environmental Development and Risk Management at TU-Dresden <i>Project: Non-migration of the People at Risks</i> <i>Principal Investigator:</i> Dr. Bishawjit Mallick, Technical University of Dresden, Dresden <i>Responsibilities:</i> Literature review, creating maps of land use change using satellite images, qualitative and quantitative survey data collection and analyses. Type: Academic and Research Institution
October 2017 to February 2018	Project Manager <i>NSF SEES Project: Linking rural smallholder soil and water management practices in tropical deltas to sea level rise vulnerability.</i> <i>Principal Investigator:</i> Dr. Kimberly RG. Rogers, University of Colorado, Boulder, USA

December 2014 to July 2015	<p><i>Responsibilities:</i> Site selection for social survey in Bangladesh, guiding the field team and conducting experts interview, in-depth interview, household survey, reporting Type: Academic and Research Institution</p> <p>Field Office Coordinator and Researcher <i>Project:</i> “Environmental stress and human migration in a low-lying developing nation: A comparison of co-evolving natural and human landscapes in the physically and culturally diverse context of Bangladesh”, A joint research project of Vanderbilt University, USA; Columbia University, USA; Dhaka University, Khulna University, Jahangirnagar University, Bangladesh; Funded by Office of Naval Research (ONR), USA <i>Responsibilities:</i> Management of project office in Bangladesh, guiding the field team and conducting experts interview, key informant interview, and reporting</p>
March 2014 to November 2014	<p>Research Assistant <i>Project:</i> “Environmental stress and human migration in a low-lying developing nation: A comparison of co-evolving natural and human landscapes in the physically and culturally diverse context of Bangladesh” A joint research project of Vanderbilt University, USA; Columbia University, USA; Dhaka University, Khulna University, Jahangirnagar University, Bangladesh; Funded by Office of Naval Research (ONR), USA <i>Responsibilities:</i> Conducting key informants’ interviews, household surveys, data entry, and reporting</p>

PERSONAL SKILLS

Mother tongue Bengali

Other Language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken Production	
English	C1	C1	C1	B2	C2
German	A1	A2	A1	A1	A1

Levels: A1/A2: Basic ; B1: Independent; B2/C1: Fluent; C2: Confident

Communication skills	Gained communication skills and ability to team work through working in different difficult environments (e.g., ISEE Vanderbilt project, NIRAPAD Project) and with different people (e.g., Social scientists, physical scientists, engineers etc.) in collaborative research projects
Operationalization and competencies	Leading a field team (6 people) in an international social research project led by Vanderbilt University, USA. Also participated in several research projects.
Computer skills	Capable of handling Microsoft Office Package (MS word, Excel, PowerPoint), Geographic Information System (GIS) Software, QGIS and Remote Sensing (RS) Software, SPSS and R.

ADDITIONAL INFORMATION

Scientific Articles and Monographs	<ul style="list-style-type: none"> • Biswas, B., Mallick, B., Roy, A. and Sultana, Z. (2021) Impact of agriculture extension services on technical efficiency of rural paddy farmers in southwest Bangladesh. <i>Environmental Challenges</i>, 5:100261, https://doi.org/10.1016/j.envc.2021.100261 (Publisher: Elsevier). • Mallick, B., Rogers, K.G. and Sultana, Z. (2021) In harm’s way: Non-migration decisions of people at risk of slow-onset coastal hazards in Bangladesh. <i>Ambio</i> https://doi.org/10.1007/s13280-021-01552-8 (Publisher: Springer). • Biswas, B., Sultana, Z., Priovashini, C., Ahsan, M. N. and Mallick, B. (2021) The Emergence of Residential Satisfaction Studies in Social Research: A Bibliometric Analysis. <i>Habitat International</i>, 109:102336, https://doi.org/10.1016/j.habitatint.2021.102336 (Publisher: Elsevier). • Mallick, B., Sultana, Z. and Bennett, C.M. (2020) How do sustainable livelihoods influence environmental (non-) migration aspirations? <i>Applied Geography</i>, 124:102328,
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<https://doi.org/10.1016/j.apgeog.2020.102328> (Publisher: Elsevier).

- **Sultana, Z.;** Sieg, T.; Kellermann, P; Mueller, M. and Kreibich, H. (2018) Assessment of Business Interruption of Flood-Affected Companies Using Random Forest, *Water*, 10(8), 1049, <http://www.mdpi.com/2073-4441/10/8/1049> (Publisher: MDPI).
 - Mallick, B and **Sultana, Z.** (2017) Livelihood after Relocation—Evidences of Guchchagram Project in Bangladesh. *Social Sciences*,6(3), 76, <https://doi.org/10.3390/socsci6030076> (Publisher: MDPI).
 - **Sultana, Z.** (2017). *Assessment of Business Interruption Due to Floods in Germany Using Random Forests Algorithm*, Master Thesis, Tropical Hydrogeology and Environmental Engineering, Technical University of Darmstadt, Darmstadt, Germany
 - **Sultana, Z.** and Mallick, B. (2015) Adaptation strategies after cyclone in southwest coastal Bangladesh – pro poor policy choices. *American Journal of Rural Development*. 3(2):24-33. doi: 10.12691/ajrd-3-2-2 (Publisher: Science and Education Publishing).
 - **Sultana, Z.** (2014). *Disaster Risk Reduction Strategies in a Changing Climate: A Study at Atulia Union under Shyamnagar Upazila, Satkhira, Bangladesh*, Bachelor Thesis, Environmental Science Discipline, Khulna University, Khulna, Bangladesh
- Book Chapter
- **Sultana, Z.,** Mondal, P., Roy, T., Biswas, B. and Mallick, B. (2021) “*Socio-political Distancing Amid Disaster: Empirical evidence from Bangladesh (Chapter 18)*” in Alam, G.M.M. et al. (Eds.) *Climate Vulnerability and Resilience in the Global South: Human Adaptations for Sustainable Futures*, Springer International Publishing. ISBN: 3030772586, 9783030772581, doi: 10.1007/978-3-030-77259-8.
 - Mallick, B. and **Sultana, Z.** (2018) “*Revisited Risk in Relocated Settlements – Empirical evidence of “Guchcha Gram” projects in coastal Bangladesh (Chapter 11)*” in Mallick, B.; Berger, B. and Kim, K. (Eds.) *Building Resilient Communities: Land Use Change, Rural Development and Adaptation to Climate Consequences*, under UC Berkeley Environmental Leadership Program – Buck Kingman Initiative, Lulu Publishing Services, pp. 227-252. ISBN: 1483481190, 9781483481197
 - **Sultana, Z.** (2015) “*Adaptation strategies after cyclone in southwest coastal Bangladesh – Pro poor policy choices (Chapter 13)*” in Islam, M.M. and Hossain, M. (Eds.) *Sustainable Development: South Asian Conundrum*, Publisher: IIDS Australia, IIMS India and BEN Germany, pp. 167-183. ISBN: 978-984-33-8819-3
- Policy Brief
- Schade, J., McDowell, C., Ferris, E., Schmidt, K., Bettini, G., Felgentreff, C., Gemenne, F., Patel, A., Rovins, J., Stojanov, R., **Sultana, Z.** and Wright, A. (2015): *Climate change and climate policy induced relocations: A challenge for social justice, Recommendations of the Bielefeld Constitution; Migration, Environment and Climate Change: Policy Brief Series*, 1(10):9, International Organization of Migration. ISSN: 2410-4930.
- Conference proceedings
Articles
- **Sultana, Z.** (2015) *Coastal Livelihood Dynamics under Changing Climate – Examples of Pro-Poor Policy Choices in Southwest Coastal Bangladesh*. 5th International Conference on Water and Flood Management (ICWFM-2015), Institute of Water and Flood Management (IWF), Bangladesh University of Engineering and Technology (BUET), 6-8 March, 2015, Dhaka, Bangladesh, pp. 337-344 (ISBN: 978-984-33-8801-8).
- Conference Papers
- **Sultana, Z.** (2021) Socio-political distancing amid disaster: Empirical evidence from Bangladesh, Gobeshona Global Conference 1 on “Research into Action on Locally-Led Adaptation”, Gobeshona; International Centre for Climate Change and Development (ICCCAD) & Independent University Bangladesh (IUB), 18-24 January, 2021, Dhaka, Bangladesh.
 - **Sultana, Z.;** Mallick, B. & Rogers, K. G. 2019. *Non-migration decisions and the transformation from shrimp to rice cultivation: challenges and opportunities in southwest Bangladesh*, paper presented at International Conference on ‘Environmental Non-

Migration: Framework, Methods and Cases', June 19-21, Technical University of Dresden, Dresden, Germany.

- **Sultana, Z.** 2015. How do religion and socio-spatial conditions affect adaptation process to climate change? paper presented at "12th Conference of the European Sociological Association on Differences, Inequalities and Sociological Imagination" Prague, Czech Republic, 25-28 August, 2015.
 - **Sultana, Z.** 2015. *Adoption as Adaptation! Long-term consequences of cyclone disaster in southwest coastal Bangladesh*, paper presented at "International Scientific Conference: Our Common Future under Climate Change" Paris, France, 7-10 July, 2015.
 - **Sultana, Z.** (2015). *Coastal Livelihood Dynamics under Changing Climate-Examples of Pro-Poor Policy Choices in Southwest Coastal Bangladesh*, in the proceedings of 5th International Conference on Water and Flood Management (ICWFM-2015), Institute of Water and Flood Management (IWFM), Bangladesh University of Engineering and Technology (BUET), 6-8 March, 2015, Dhaka, Bangladesh.
 - **Sultana, Z. & Mallick, B.** 2014. *Revisited Risks in Relocated Settlements - empirical evidence of "Guchcha Gram" rehabilitation project in coastal Bangladesh*, paper presented at "COST Action IS1101 Climate Change and Migration - Bielefeld Workshop Social inequality and social justice in environmentally-induced relocation", 20-21 November, 2014 – University of Bielefeld, Germany.
 - **Sultana, Z.** 2014. *Coastal Livelihood Dynamics under Changing Climate-Examples of Pro-Poor Policy Choices in Southwest Coastal Bangladesh*, presented at "International Conference on Sustainable Development" at Bonn University, Germany; on 11th July, 2014.
 - **Sultana, Z.** 2014. *Disaster Risk Reduction Strategies in a Changing Climate: A Study at Atulia Union under Shyamnagar Upazila, Satkhira*, paper presented at "International Conference on Environment and Development" at Rajshahi University, Bangladesh; on 7th March, 2014.
- Conference Posters
- **Sultana, Z.;** Sieg, T.; Kellermann, P; Mueller, M. & Kreibich, H. 2018. *Using Random Forests to assess business interruption in the commercial sector of Germany*, a poster presented at "European Geosciences Union General Assembly 2018", Vienna, Austria, 8-13 April 2018, Poster No: EGU2018-6860.
 - **Sultana, Z. & Mallick, B.** 2014. *Revisited Risks in Relocated Settlements - empirical evidence of "Guchcha Gram" rehabilitation project in coastal Bangladesh*, a poster presented at "Nansen-Bangladesh International Centre for Coastal, Ocean and Climate Studies (NABIC) International Winter School 2014", 12-18 October, 2014- Hotel the Cox Today, Cox's Bazar, Bangladesh.
- Research grant
- February 2021 – February 2022:
Project: Collective- learning as locally-led adaptation strategies for resilience building in informal urban settlements in the face of climate change.
Team members: Zakia Sultana, Bangladesh (lead); Sarah Nandudu, Uganda; Hamida Akter, Bangladesh.
Small Grant Competition awarded by Gobeshona Global Conference 1 organized by ICCCAD (International Centre for Climate Change and Development) and GRP (Global Resilience Partnership). Funder: CJRF (Climate Justice Resilience Fund). Amount: 5000 USD
- Honors and awards
- 2019: Travel grant for participating Conference 'Environmental Non-Migration: Framework, Methods, and Cases', 19-21 June at TU-Dresden, Dresden, Germany.
 - 2017: Travel grant to participate AGEP Winter School, "The nexus of water, energy, soil and food", 15-17 February 2017 at GSI, Bonn, Germany
 - 2016: Travel grant for participating EDGE International Summer School – Politics of the

Earth, September 4 to September 9, 2016 in Paris, France.

- 2015-2017: DAAD scholarship Development related postgraduate courses
MSc in Tropical Hydrogeology and Environmental Engineering, TU- Darmstadt, Germany.
 - 2015: Travel grant for participating presented at “International Scientific Conference: Our Common Future under Climate Change” Paris, France, 7-10 July, 2015.
 - 2014: Travel grant for participating presented at COST Action IS1101 Climate Change and Migration - Bielefeld Workshop Social inequality and social justice in environmentally-induced relocation”, 20-21 November, 2014 – University of Bielefeld, Germany
- Memberships
- Member, Coastal Research Foundation, Khulna, Bangladesh
 - Alumni, Tropical Hydrogeology and Environmental Engineering, Technische Universitaet Darmstadt, Germany
 - Alumni, DAAD (German Academic Exchange Service), Germany
 - Alumni, Environmental Science Discipline, Khulna University, Bangladesh
 - Member, Environmental Awareness Club, Khulna University, Bangladesh

References

1. **Dr. Md. Mujibor Rahman**, Professor, Environmental Science Discipline, Khulna University, Khulna-9208, Bangladesh; Email: mujibku@gmail.com
 2. **Dr. Bishawjit Mallick**, Marie Skłodowska-Curie Research Fellow, Chair of Environmental Development and Risk Management, Faculty of Environmental Sciences, Technische Universität Dresden (TUD), Germany. Email: bishawjit.mallick@tu-dresden.de and Institute of Behavioral Science, University of Colorado Boulder, Boulder, CO 80309, USA, Email: bishawjit.mallick@colorado.edu
 3. **Dr. Kimberly G. Rogers**, Assistant Professor, Department of Coastal Studies, East Carolina University, Greenville, NC 27858-4353, USA. Telephone: +1 (512) 467-8622, Email: rogerski19@ecu.edu
 4. **Dr. Heidi Kreibich**, Head of WG Flood risk and climate adaptation, Section 4.4, Hydrology, GFZ, Telegrafenberg, Building C 4 , room 2.33, 14473 Potsdam, Germany. Telephone: +49 331 288-1550, Email: heidi.kreibich@gfz-potsdam.de
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