

Musabber Ali Chisty

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Education

- 2022 - Present University of Colorado Boulder
Ph.D. in Sociology
Research Focus: Social Vulnerabilities, Human Behavior, Intersectionality, Disaster Preparedness and Response, Disaster Recovery.
- 2019 Jahangirnagar University
Dhaka, Bangladesh
Master of Science in GIS for Environment and Development
Thesis: Coping capacity assessment of urban fire disaster
- 2017 Institute of Disaster Management and Vulnerability Studies
University of Dhaka
Masters of Disaster Management
Thesis: Assessing community disaster resilience in flood-prone areas of Bangladesh
- 2016 Institute of Disaster Management and Vulnerability Studies
University of Dhaka
Bachelor of Disaster Management

Research Positions

- Aug 2022 - Present **Graduate Research Assistant**
Natural Hazards Center, University of Colorado Boulder
- Jan 2018 – Jan 2019 **Graduate Research Assistant**
Department of Geography and Environment, Jahangirnagar University
- Feb 2017 – Jan 2018 **Graduate Research Assistant**
Institute of Disaster Management and Vulnerability Studies, University of Dhaka

Teaching Experience

- Summer, 2024 **Graduate Part-Time Instructorship (GPTI)**, Department of Sociology, University of Colorado Boulder, [SOCY 2061 Introduction to Social Statistics]
- Spring, 2024 **Graduate Teaching Assistant**, Department of Sociology, University of Colorado Boulder, [SOCY 2061 Introduction to Social Statistics]
- Fall, 2023 **Graduate Teaching Assistant**, Department of Sociology, University of Colorado Boulder, [SOCY 2061 Introduction to Social Statistics]
- Summer, 2023 **Graduate Part-Time Instructorship (GPTI)**, Department of Sociology, University of Colorado Boulder, [SOCY 2061 Introduction to Social Statistics]
- Spring, 2023 **Graduate Teaching Assistant**, Department of Sociology, University of Colorado Boulder, [SOCY 2061 Introduction to Social Statistics]
- Fall, 2022 **Graduate Teaching Assistant**, Department of Sociology, University of Colorado Boulder, [SOCY 2061 Introduction to Social Statistics]

Professional Experience

- Jun 2022 - Present **Assistant Professor (On study leave)**
Institute of Disaster Management and Vulnerability Studies
University of Dhaka

- Mar 2019- Jun 2022 **Lecturer**
Institute of Disaster Management and Vulnerability Studies
University of Dhaka
- Jan 2019 – Mar 2022 **Lecturer**
Department of Disaster Management and Resilience
Bangladesh University of Professionals

Peer-Reviewed Articles

- 2024 Painter, M. A., Shah, S., Prudencio, W., Damestoit, G., Khalid, F., **Chisty, M. A.**, Tormos-Aponte, F., & Wilhelmi, O., “A Systematic Scoping Review of the Social Vulnerability Index as Applied to Natural Hazards”, *Natural Hazards*, <https://doi.org/10.1007/s11069-023-06378-z>
- 2024 Islam, A.R.M.T., Mamun, A.A., Rahman, M.N., Akter, M.Y., **Chisty, M. A.**, Alam, G.M.M., Mallick, J., Sohel, M.S., “A cost-benefit analysis of flood early warning system: Evidence from lower Brahmaputra River Basin, Bangladesh”, *International Journal of Disaster Risk Reduction*, 104, <https://doi.org/10.1016/j.ijdrr.2024.104380>
- 2023 **Chisty, M. A.**, Khan, N. A., Dola, S. E. A., Sumaya, I.A., Rahman, M.M., “Knowledge, Attitude, and Practice Toward Flood Volunteerism in Bangladesh: A Gender-based Analysis with Policy Implications”. *Global Social Welfare*, 10, 225–233 <https://doi.org/10.1007/s40609-023-00276-9>
- 2022 Rahman, M.M., Arif, S.S.I., Mahdi, I., Rafi, M.A., **Chisty, M. A.**, Khan, S.J., “Cyclone Vulnerability in Ethnic Minority: A Case Study among Rakhain Community of Bangladesh”. *International Journal of Disaster Risk Reduction*, 83, <https://doi.org/10.1016/j.ijdrr.2022.103449>
- 2022 Rahman, M.M., Islam, A.R.M.T., Khan, S.J., Tanni, K.N., Roy, T., Islam, M.R., Rumi, M.A.A.R., Sakib, M.S., Quader, M.A., Bhuiyan, N.U.I., **Chisty, M.A.**, Rahman, F., Alam, E., “Dengue Fever Responses in Dhaka City, Bangladesh: A Cross-Sectional Survey”. *International Journal of Public Health*, 67:1604809. <https://doi.org/10.3389/ijph.2022.1604809>
- 2022 Rahman, M.M., **Chisty, M.A.**, Alam, M.A., Sakib, M.S., Quader, M.A., Shobuj, I.A., Rahman, F., “Knowledge, attitude, and hesitancy towards COVID-19 vaccine among university students of Bangladesh” *PLoS ONE*, 17(6): e0270684. <https://doi.org/10.1371/journal.pone.0270684>
- 2022 Rahman, M.M.; Nabila, I.A.; Sakib, M.S., Silvia, N.J., Galib, M.A., Shobuj, I.A., Hasan, L., **Chisty, M.A.**, Rahman, F., Alam, E., Islam, A.R.M.T., Almohamad, H., Al-Mutiry, M., Abdo, H. G., Status and Individual View toward Lightning among University Students of Bangladesh. *Sustainability*, 14, 9314. <https://doi.org/10.3390/su14159314>
- 2022 **Chisty, M.A.**, Muhtasim, M., Biva, F.J., Dola, S.E.A., Khan, N.A., “Sendai Framework for Disaster Risk Reduction (SFDRR) and Disaster Management Policies in Bangladesh: How far we have come to make communities resilient?” *International Journal of Disaster Risk Reduction*, 76. <https://doi.org/10.1016/j.ijdrr.2022.103039>
- 2022 Islam, M.A., **Chisty, M.A.**, Fuad, A., Rahman, M.M., Muhtasim, M., Dola, S.E.A., Biva, F.J., Khan, N.A., “Using ARC-D Toolkit for Measuring Community Resilience to Disasters” *Sustainability*, 14(3):1758. <https://doi.org/10.3390/su14031758>
- 2022 Rahman, M.M., Tasnim, F., Quader, M.A., Bhuiyan, N.U.I., Sakib, M.S., Tabassum, R., , Shobuj, I.A., Hasan, L., **Chisty, M.A.**, Rahman, F., Alam, E., Islam, A.R.M.T., “Perceived

- Noise Pollution and Self-reported Health Status among Adult Population of Bangladesh” *International Journal of Environmental Research and Public Health*, 19 (4):2394. <https://doi.org/10.3390/ijerph19042394>
- 2022 Rahman, M.M., Khan, S.J., Tanni, K.N., Roy, T., **Chisty, M.A.**, Islam, M.R., Rumi, M.A.A.R., Sakib. M.S., Quader, M.A., Bhuiyan, N.U.I., Rahman, F., Alam, E., Islam, A.R.M.T., “Knowledge, Attitude and Practices towards Dengue Fever among University Students of Dhaka city, Bangladesh” *International Journal of Environmental Research and Public Health*, 19 (7): 4023. <https://doi.org/10.3390/ijerph19074023>
- 2022 Rahman, M.M.; Nabila, I.A.; Sakib, M.S., Silvia, N.J., Galib, M.A., Shobuj, I.A., Hasan, L., **Chisty, M.A.**, Rahman, F., Alam, E., Islam, A.R.M.T., “Knowledge, Attitude, and Practices towards Lightning in Bangladesh” *Sustainability* 14(1): 448. <https://doi.org/10.3390/su14010448>
- 2021 **Chisty, M. A.**, Rahman, M. M., Khan, N. A., & Dola, S. E. A. “Assessing Community Disaster Resilience in Flood-Prone Areas of Bangladesh: From a Gender Lens.” *Water*, 14(1), 40. <http://doi.org/10.3390/w14010040>
- 2021 Rahman, M.M, **Chisty, M.A.**, Sakib, M.S., Quader, M.A., Shobuj, I.A., Alam, M.A., Halim, M.A., Rahman, F., “Status and Perception towards the COVID-19 Vaccine: A Cross-sectional Online Survey among Adult Population of Bangladesh”. *Health Science Reports*, 4: e451. <http://doi.org/10.1002/hsr2.451>
- 2021 **Chisty, M.A.**, Nazim, A., Rahman, M.M., Dola, S.E.A., and Khan, N.A., “Disability inclusiveness of early warning system: a study on flood-prone areas of Bangladesh”. *Disaster Prevention and Management*, Vol. 30 No. 4/5, pp. 494-509. <https://doi.org/10.1108/DPM-05-2021-0177>
- 2021 **Chisty, M. A.**, Islam, M. A., Munia, A. T., Rahman, M. M., Rahman, N. N., & Mohima, M., “Risk perception and information-seeking behavior during an emergency: An exploratory study on COVID-19 pandemic in Bangladesh”. *International Journal of Disaster Risk Reduction*, 65, 1–11. <https://doi.org/10.1016/j.ijdr.2021.102580>
- 2021 **Chisty M. A.**, Afrose, N., and Mohima, M., “Social Media in Disaster Response: COVID-19 and Bangladesh Perspectives”. *Journal of Emergency Management*, 19(7). <https://doi.org/10.5055/jem.0579>
- 2021 **Chisty, M. A.**, Dola, S. E. A., Khan, N. A., & Rahman, M. M., “Intersectionality, vulnerability and resilience: why it is important to review the diversifications within groups at risk to achieve a resilient community”. *Continuity & Resilience Review*, 3(2), 119–131. <https://doi.org/10.1108/CRR-03-2021-0007>
- 2020 **Chisty, M. A.**, and Rahman, M. M., “Coping capacity assessment of urban fire disaster: An exploratory study on ward no: 30 of Old Dhaka area”, *International Journal of Disaster Risk Reduction*, Volume 51. <https://doi.org/10.1016/j.ijdr.2020.101878>
- 2020 **Chisty, M.A.**, et al. “State of Humanitarian Actions in Bangladesh 2019 Focusing on Natural Disasters with a brief account on Rohingya crisis”, NAHAB Publication, <https://10.13140/RG.2.2.26943.94883>
- Under Review/Accepted Manuscripts**
- 2023 **Chisty, M. A.**, Dola, S. E. A., Sumaya, I.A., Khan, N. A., Mahazabin, A., Rahman, M.M, “Convergence Behavior in Disaster Studies: Reviewing Floods and Human Behavior from a Sociological Perspective”.

- 2023 **Chisty, M. A.**, Islam, M. A., Dola, S. E. A., Jahan, I., Khan, N. A., Rahman, M., “Social Protection and Disaster Risk Management in Bangladesh: Are the Social Safety Net (SSN) Programs Reducing Vulnerabilities?”
- 2023 Rahman, M.M., Quader, M. A., **Chisty, M. A.**, Alam, E., Islam, M. K., Islam, A. R. M. T., “Perceived Road Traffic Noise Pollution and Self-rated Health Status: Bangladesh Perspective”.
- 2023 Rahman, M.M., Hasanuzzaman, A. B. M., **Chisty, M. A.**, Alam, E., Islam, M. K., Islam, A. R. M. T., “Perceived-Air Pollution and Self-reported Health Status: A Study on Air Pollution-prone Urban Area of Bangladesh”.

Manuscripts In Progress

- 2024 **Chisty, M. A.**, Islam, M. A., “Demystifying the Study of Managing Disasters: Theories and Fundamentals”.

Presentations at Conferences, Seminars, and Meetings

- 2024 **Chisty, M. A.**, “Disaster and Human Behavior: A Qualitative Study on Floods and Convergence Behavior”. Annual Meeting of American Association of Geographers, Honolulu, Hawaii, April 16-20, 2024, <https://aag.secure-platform.com/aag2024/solicitations/57/sessiongallery/7887/application/31083>
- 2023 **Chisty, M. A.** “Knowledge, Attitude, and Practice Toward Flood Volunteerism in Bangladesh: A Gender-based Analysis with Policy Implications”. EGU General Assembly 2023, Vienna, Austria, 24–28 April 2023, EGU23-213, <https://doi.org/10.5194/egusphere-egu23-213>
- 2023 **Chisty, M. A.** “Assessing Effectiveness of Volunteers in Disaster Risk Management: A Randomized Controlled Trial (RCT) Study in Flood-Prone Areas of Bangladesh”. Annual Meeting of American Association of Geographers, Denver, Colorado, US, March 23-27, 2023, <https://aag.secure-platform.com/aag2023/gallery/rounds/54/details/35383>

Data and Repository Work

- 2023 Painter, M. A., Shah, S., Prudencio, W., Damestoit, G., Khalid, F., **Chisty, M. A.**, Tormos-Aponte, F., & Wilhelmi, O. (2023). 2003-2021 A Systematic Scoping Review of the Social Vulnerability Index as Applied to Natural Hazards [dataset]. Designsafe-CI. <https://doi.org/10.17603/DS2-JGDV-1W43>

Honors, Awards, Fellowships, and Grants

- 2024 CU Population Center (CUPC) Summer Research Fund (\$2000)
Institute of Behavioral Science
University of Colorado Boulder
- 2024 Clifford C. Clogg Scholarship (\$2600)
2024 ICPSR Summer Program in Quantitative Methods
Inter-university Consortium for Political and Social Research (ICPSR)
University of Michigan
- 2024 National Science Foundation (NSF) Travel Award (\$1300)
Natural Hazards Research Summit 2024
Natural Hazards Engineering Research Infrastructure (NHERI)
- 2024 Jeanne X. Kasperson Student Paper Award
Hazards, Risks, and Disasters Specialty Group
American Association of Geographers (AAG)

- 2023 Fall Research Fund Award (\$1500)
Department of Sociology, CU Boulder
Disaster Preparedness in the United States: A Study on FEMA National Household Survey 2022
- 2023 Bushee Award (\$1000)
Department of Sociology, University of Colorado Boulder
For presenting research work in the General Assembly of the European Geosciences Union
- 2023 Jeanne X. Kasperson Student Paper Award
Hazards, Risks, and Disasters Specialty Group
American Association of Geographers (AAG)
- 2022 IBS Small Grant Award (\$300)
Institute of Behavioral Science, University of Colorado Boulder
Wildfire research in Boulder, Colorado
- 2022 Fall Research Fund Award (\$1500)
Department of Sociology, CU Boulder
Assessing the perception of wildfire risk among the students of the University of Colorado Boulder
- 2022 UGC Research Fund (\$3600)
University of Dhaka
Relationship among Poverty, Vulnerability, and Flood: Assessing the possibilities of poverty alleviation as part of vulnerability reduction in the disaster risk reduction process
- 2022 Research Grant Award (\$7800)
Ministry of Cultural Affairs, Government of Bangladesh
Assessing the Potential Impacts of Disasters on Cultural Heritages: A study on selected cultural heritages in disaster-prone areas of Bangladesh
- 2021 Centennial Research Grant (CRG) Award (\$4000)
University of Dhaka
Strengthening Institutional Disaster Management Capacity through a People-Centered Approach: Introducing Dedicated Flood Volunteers for Ensuring Effective Flood Risk Reduction
- 2020 UGC Research Fund (\$800)
University of Dhaka
Developing Community Involvement Mechanism in Flood Loss and Damage Assessment for Increasing Effectiveness of Disaster Management
- 2019 Dutch Bangla Water Award for Best Poster
Dhaka Water Week
Deltares and The Royal Embassy of Netherlands in Bangladesh
- 2017 Undergraduate Result Award
Ministry of Education, Bangladesh

Services

- 2024 - Present President
Bangladeshi Student Association
University of Colorado Boulder
- 2022 - 2023 Undergraduate Sociology Club Coordinator
Department of Sociology
University of Colorado Boulder

2022 - 2023 Resident Council Member
 Graduate and Family Housing
 University of Colorado Boulder

Consultancies

2022	Co- Investigator	Development of Curriculum on “DRR, Humanitarian Response, and Intersectionality. [Commissioned by Gender Responsive Resilience and Intersectionality in Policy and Practice (GRRIPP) and UKRI]
2021	Team Leader	Translation of Inter-Agency Standing Committee (IASC) Guidelines on Inclusion of Persons with Disabilities in Humanitarian Action. [Commissioned by Center for Disability in Development]
2021	Lead Consultant	Developing modules and conducting training of trainers on Disaster Risk Reduction (DRR). [Commissioned by Christian Aid, Australia Aid, Caritas Bangladesh, and EKOTA Consortium]
2021	M&E External Surveyor	Evaluating Innovations for Water and Energy for Food: A Grand Challenge for Development. [Commissioned by USAID]
2021	Co- Investigator	Assessing Implementation of the Dhaka Declaration 2015+1 in Reducing Disaster Risk for Persons with Disabilities: A Comprehensive Study on the Role of Ministry of Disaster Management and Relief. [Joint initiative by Ministry of Disaster Management and Relief, and Institute of Disaster Management and Vulnerability Studies, University of Dhaka]
2020	Co- Investigator	Preventing minors from illicit drug abuse through identifying the risk factors and their mental health condition: Bangladesh perspective. [Joint initiative by Steps Bangladesh and the Institute of Disaster Management and Vulnerability Studies, University of Dhaka]
2020	Lead Consultant	Developing Data Collection Tools and Conducting Studies on Unemployment especially among Young Women, LGBTQI+, and Young People during the COVID-19 Pandemic. [Commissioned by ActionAid Bangladesh]
2020	Lead Translator	Translation of IFRC Minimum Standards for Protection Gender and Inclusion in Emergencies guideline in Bangla to support BDRCS. [Commissioned by the International Federation of Red Cross and Red Crescent Societies]
2020	Co- Investigator	Baseline study on Sustainable Cotton Production in Bangladesh. [Joint initiative by Primark, Better Life Foundation, and Institute of Disaster Management and Vulnerability Studies, University of Dhaka]
2019	Co- Investigator	End-line evaluation of BRAC Boat School Program. [Joint initiative by BRAC and Institute of Disaster Management and Vulnerability Studies, University of Dhaka]

Training and Professional Certifications

2022		Training on Reciprocity in Hazards and Disaster Research by Natural Hazards Center, CONVERGE, and NHERI
2022		Training of Trainers on Disaster Impact Assessment by the Planning Commission, Government of Bangladesh, and UNDP
2019		Training of Trainers on Integrated Water Resources Management by the Center for Environmental and Geographic Information Services (CEGIS).
2019		International Training on Rainwater Harvesting System by WaterAid Bangladesh.

2018	Certificate Course on Remote Sensing by Institute of Remote Sensing, Jahangirnagar University.
2018	Conservation Research System by USAID and Wildteam Bangladesh.
2016	Training on Core Humanitarian Standard by Oxfam, START Network & MzN International.
2015	ICT Training on graphic designing by ICT Division Bangladesh and BASIS.
2015	Active Citizen Facilitator Training by British Council
2014	Active Citizen Youth Leadership Training by British Council
2013	Training of Trainers on Disaster Management by Rajib Gandhi National Institute of Youth Development, Chennai, India

Professional Memberships

2022 – Present	American Sociological Association
2022 – Present	American Association of Geographers
2022 - 2023	European Geosciences Union

Reviewer

2023	Special Call for Proposals: Research in U.S. Territories, Tribal Areas, and Rural Communities, Public Health Disaster Research Award Program, Natural Hazards Center, University of Colorado Boulder https://hazards.colorado.edu/research/public-health-disaster-research-award-program
2023	Student Paper Competition Award Committee Member, 48th Natural Hazards Center Researchers Meeting and Workshop. Boulder, CO.
2022	Special Call for Proposals: Research in U.S. Territories, Tribal Areas, and Rural Communities, Public Health Disaster Research Award Program, Natural Hazards Center, University of Colorado Boulder https://hazards.colorado.edu/research/public-health-disaster-research-award-program

Skills

1. R-packages
2. STATA
3. ArcGIS
4. MAXQDA

References

Lori Peek, PhD

Professor, Department of Sociology
 University of Colorado Boulder
 Director, Natural Hazards Center
 University of Colorado Boulder
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Kyle Thomas, PhD

Associate Professor, Department of Sociology
 University of Colorado Boulder
kyle.thomas@colorado.edu