Ram Krishna Mazumder, Ph.D. Postdoctoral Research Fellow

NIST Center for Risk-Based Community Resilience Planning Civil, Environmental and Architectural Engineering The University of Kansas, Lawrence, KS 66045

Email: rkmazumder@ku.edu, Phone: 216 855 2016

Google Scholar: https://goo.gl/E9k4AJ, Website: https://rxm562.github.io/

2018 2015

2014

2011

Case Western Reserve University, Oh	io USA		Aug. 2016 - July 2020
Ph.D., Civil Engineering			11ug. 2010 - July 2020
Dissertation: Risk-Based Asset Manager	nent Framework for Water Distribut.	ion Systems	
University of Geneva, Geneva, Switzerland			Apr. 2014 - Feb. 2019
Postgraduate Diploma, Geological and C			1
Sapienza University of Rome, Rome, Italy		Dec. 2011 - Dec. 2012	
M.S., Evaluation, Control and Reductio	•		
Shahjalal University of Science and Technology, Sylhet, Bangladesh		Jan. 2005 - June 2009	
B.S., Civil and Environmental Engineeri			
Research Interests			
• Resilient Civil Infrastructure Systems	Structural Reliability Analysis	• Earthquake Engir	neering
		g and Data Analytics	
Professional Experience		·	
Postdoctoral Researcher, NIST Cente	r for Risk-Based Community Res	silience Planning	Aug. 2020 - Presen
Dept. of Civil, Environmental & Archite	ctural Engineering	· ·	C
University of Kansas, Lawrence, Kansas			
Graduate Research and Teaching Assistant			Aug. 2016 - July 2020
Department of Civil Engineering			
Case Western Reserve University, Clevela	nd, Ohio		
Lecturer/Assistant Professor		May. 2013 - Aug. 201	
Institute of Earthquake Engineering Res			
Chittagong University of Engineering an	d Technology, Chittagong, Banglade	sh	
Research Engineer			Oct. 2010 - Dec. 201
Bangladesh University of Engineering an	d Technology, Dhaka, Bangladesh		
Project Engineer			June 2010 - Sep. 201
Trust Alliance Technology Limited, Dha	ka, Bangladesh		
Structural Engineer		July 2009 - May. 201	
Asian Disaster Preparedness Center, Dha	ka, Bangladesh		
Awards and Honors			
2020 Kenneth M. Haber Award, Sc	hool of Grad Studies, Case Western I	Reserve University	
	ican Society of Civil Engineers (ASC	•	
	nd Surveying Institute (UESI) Sch	•	2019
	nt Council, Case Western Reserve U		

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Wilsdorf Foundation and Solidarity Int. Fellowship, for PG Specialization at University of Geneva

German Research Center for Geosciences (GFZ) Fellowship, for training on Seismic Hazard

The Roy Harley Prize, School of Grad Studies, Case Western Reserve University

Erasmus Mundus Master Scholarship, for M.S. at Sapienza University of Rome

Post-Doctoral Research

University of Kansas

Advisor: Dr. Elaina J. Sutley

Project - 1: Center of Excellence for Risk-Based Community Resilience Planning, NIST

- Modelling of post-disaster recovery and restoration of buildings and infrastructure systems
- Analyzing role of historical housing disparities in households recovery and community disaster resilience.

Project - 2: Assessing the Role of Buildings and Organizations in Community Disaster Resilience

• Modelling of community resilience through holistic integration of the technical, organizational, social, and economic systems imperative to a community's functionality.

Project - 3: Impact and Recovery in Rural Kansas after an EF4 Tornado

· Modelling of rural housing recovery considering repair, functionality restoration, stability and accessibility, re-occupancy.

Doctoral Research

Case Western Reserve University

Aug. 2016 - July 2020

Aug. 2020 - to date

Advisor: Dr. Yue Li

Project: NSF Multi-agent Sustainable Water Decision Theory: Nexus Water, Road, & Social Contractual Systems

- Developed a physical probabilistic model for time-variant reliability analysis of water distribution systems.
- Developed seismic resilience and functionality analysis framework of water networks using probabilistic approaches.
- Developed a python-based open-source tool to estimate seismic damage & renewal cost of water distribution systems.
- Formulated a post-disaster sequential recovery planning framework to find an optimal recovery path that maximizes the functionality of water distribution systems during the repair process.
- Formulated a decision-support tool for interdependent water and road networks utilizing fuzzy hierarchical inference and complex network theory to prioritize maintenance tasks.
- Investigated the feasibility of machine learning applications in failure risk analysis of corroded steel pipelines.

Publications

Peer-Reviewed Journal Articles

- 1. Enderami, S. A., **Mazumder, R. K.**, Dumler, M. D., and Sutley, E. J. (202X). Virtual Testbeds for Community Resilience Analysis: State of the Art Review and Consensus Study, *Natural Hazards Review, ASCE* (Accepted).
- Wang, X., Mazumder, R. K., Salarieh, B., Salman, A. M., Shafieezadeh, A., and Li, Y. (202X). Machine Learning for Risk and Resilience Assessment in Structural Engineering: Progress and Future Trends, to be submitted to *Journal of Structural Engineering*, ASCE doi:10.1061/(ASCE)ST.1943-541X.0003392
- 3. Daniel, L., **Mazumder, R. K.**, Enderami S. A., Sutley, E. J., and Lequesne, R. D. (2022). A Community Capitals Framework for Linking Buildings and Organizations for Enhancing Community Resilience through the Built Environment, *Journal of Infrastructure Systems, ASCE*, 28(1), 04021053. doi:10.1061/(ASCE)IS.1943-555X.0000668.
- 4. **Mazumder, R. K.**, Rana, S., and Salman, A. M. (2021). First Level Seismic Risk Assessment of Old Unreinforced Masonry (URM) Using Fuzzy Synthetic Evaluation, *Journal of Building Engineering*, 44, 103162. doi:j.jobe.2021.103162
- 5. Mazumder, R. K., Salman, A. M., and Li, Y. (2021). Failure Risk Analysis of Pipelines using Data-Driven Machine Learning Algorithms, *Structural Safety*, 89, 102047. doi:10.1016/j.strusafe.2020.102047 [One of the most cited articles published in Structural Safety since 2019]
- Mazumder, R. K., Salman, A. M., Li, Y., and Yu, X. (2021). Asset Management Decision Support Model for Water Distribution Systems: Impact of Water Pipe Failure on Road and Water Networks, *Journal of Water Resources Planning* and Management, ASCE, 147(5), 04021022. doi:10.1061/(ASCE)WR.1943-5452.000136

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- 7. Li., W., **Mazumder, R. K.**, and Li, Y. (2021). Reliability Analysis of Buried Water Pipelines Under Active Corrosion: A Finite Element Analysis Approach, *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems: Part A. Civil Engineering*, 7(4), 04021064. doi:10.1061/AJRUA6.0001178
- 8. **Mazumder, R. K.**, Salman, A. M., and Li, Y. (2020). Post-Disaster Sequential Recovery Planning for Water Distribution Systems using Topological and Hydraulic Metrics, *Journal of Structure and Infrastructure Engineering*, 1-16. doi:10.1080/15732479.2020.1864415
- Mazumder, R. K., Fan, X., Salman, A. M., Li, Y., and Yu, X. (2020). Framework for Seismic Damage and Renewal Cost Analysis of Buried Water Pipelines, *Journal of Pipeline Systems Engineering and Practice, ASCE*, 11(4), 04020038. doi:10.1061/(ASCE)PS.1949-1204.0000487
- Mazumder, R. K., Salman, A. M., Li, Y., and Yu, X. (2020). Seismic Functionality and Resilience Analysis of Water Distribution Systems, *Journal of Pipeline Systems Engineering and Practice, ASCE*, 11(1), 04019045. doi:10.1061/(ASCE)PS.1949-1204.0000418 [Editor's Choice Article]
- Haque, D. M. E., Mimi, A., Mazumder, R. K., and Salman, A.M. (2020). Evaluation of Natural Hazard Risk for Coastal Districts of Bangladesh Using the INFORM Approach, *International Journal of Disaster Risk Reduction*. 48: 101569. doi:10.1016/j.ijdrr.2020.101569
- 12. **Mazumder, R. K.**, Salman, A. M., Li, Y., and Yu, X. (2019). Reliability Analysis of Water Distribution Systems using Physical Probabilistic Pipe Failure Method, *Journal of Water Resources Planning and Management, ASCE*, 145(2): 04018097, doi:10.1061/(ASCE)WR.1943-5452.0001034
- 13. **Mazumder, R. K.**, Salman, A. M., Li, Y., and Yu, X. (2018). Performance Evaluation of Water Distribution Systems and Asset Management: State-of-the-Art Reviews, *Journal of Infrastructure Systems, ASCE*, 24(3): 03118001, doi:10.1061/(ASCE)IS.1943-555X.0000426
- 14. **Mazumder, R. K.**, and Salman, A. M. (2018). Seismic Damage Assessment Using GIS and RADIUS: A Case Study of Sylhet City, Bangladesh, *Int. Journal of Disaster Risk Reduction*, 34 (2019), 243-254, doi:10.1016/j.ijdrr.2018.11.023
- 15. **Mazumder, R. K.**, Uddin, S., Dey, R., and Ansary, M. A. (2016). Analytical Fragility Curves for Reinforced Concrete Building Using Single Point Scaled Spectrum Matched Ground Motion Analyses, *Malaysian Journal of Civil Engineering*, 28(3):394-406, https://mjce.utm.my/index.php/MJCE/article/view/433
- Mazumder, R. K., and Ansary, M. A. (2014). Application of Capacity Spectrum Method based on ATC 40 and BNBC 1993, Journal of Advanced Structures and Geotechnical Engineering, 03(04):364-367, http://basharesearch.com/1030411.html
- 17. **Mazumder, R. K.**, Khair, A., Sakib, N., Bhuiyan, A. R., and Alam, J. (2014). Rapid Assessment Procedure for Seismic Evaluation of Existing Buildings: A Case Study for CUET Campus, *J. of South Asian Disaster Studies*, 5(1-2):09-26

Other Peer-reviewed Journal Papers [Education and Diversity]

- 18. Donkor, F. K. and **Mazumder, R. K.**, Hosseinzadeh, S., and Roy, S. (2020). A User-Centric Design Approach to Understand International Education in the Contemporary World: Motivations and Gender Preferences for Studying in Europe, *Journal of Research in International Education*, 19(1), 54-68. doi:10.1177/1475240920916046
- 19. Donkor F.K. and **Mazumder, R. K.** (2020). Women and the Environment: Southern Perspectives and Global Implications, *in Gender Equality, Encyclopedia of the UN Sustainable Development Goals*. doi:10.1007/978-3-319-70060-1

Peer-reviewed Journal Papers (Under Review)

- 20. **Mazumder, R. K.**, and Sutley, E. J. (202X). Post-Earthquake Community Resilience Analysis: Integrating Essential Infrastructure Systems Services with Building Functionality, submitted to *Journal of Infrastructure Systems, ASCE*.
- 21. **Mazumder, R. K.**, Enderami, S. A., and Sutley, E. J. (202X). A novel framework to study community-level social and physical impacts of hurricane-induced winds through synthetic scenario analysis, *Frontiers in Built Environment*.
- 22. Li, W., **Mazumder, R. K.**, and Li, Y. (202X). Topology-based Seismic Resilience Metrics for System-Level Performance Evaluation and Recovery Strategy of Water Distribution System, to be submitted to *Journal of Pipeline Systems Engineering and Practice, ASCE*.

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Journal Manuscript (In-Preparation)

- 23. **Mazumder, R. K.**, Enderami, S. A., Loerzel, J., and Sutley, E. J. (202X). Racial Equity and Historical Housing Disparities Impact on Present-Day Community Disaster Resilience, to be submitted to *Journal of Infrastructures Systems, ASCE*.
- 24. **Mazumder, R. K.**, and Sutley, E. J. (202X). Modeling the Influence of Social Vulnerability, Building Functionality Restoration, Resources, and Vacancies on Household-Level Housing Recovery, to be submitted to *International Journal of Disaster Risk Reduction*.
- 25. Thompson, T., **Mazumder, R. K.**, Sutley, E. J., Reed, D., Lequesne, R., Li, J., Kirkham, W. (202X). Longitudinal Repair and Recovery in Rural Kansas after an EF4 Tornado, to be submitted to *Natural Hazards Review, ASCE*.
- 26. Enderami, S. A., Sutley, E. J., and **Mazumder, R. K.** (202X). Virtual Testbeds for Community Resilience Analysis: Step-by-Step Development Procedure, to be submitted to *Reliability Engineering and System Safety*.
- 27. **Mazumder, R. K.**, Rana, S., and Ansary, M. A. (202X). A Python-based Earthquake Risk Assessment Tool (EQRAT) for Predicting Physical and Socioeconomic Losses in Urabn Areas *International Journal of Disaster Risk Reduction*

Refereed Conference Articles

- Mazumder, R. K., Dumler, M., Enderami S. A., and Sutley, E. J. (2021). A Scenario-based Hurricane Analysis Framework for Community-level Building Damage Estimation, 6th American Association for Wind Engineering Workshop, Clemson University, Clemson, SC, USA, May 12-14, 2021, 106-109.
- 2. **Mazumder, R. K.**, Salman, A. M., and Li, Y. (2021). Reliability Assessment of Oil and Gas Pipeline Systems at Burst Limit State Under Active Corrosion, *18th International Probabilistic Workshop*, May 12-14, 2021, Guimarães, Portugal, 653-660, doi:10.1007/978-3-030-73616-3-50
- 3. **Mazumder, R. K.**, Salman, A. M., Li, Y. and Yu, X. (2019). Reliability Assessment of Corroded Water Distribution Infrastructure, *ASCE UESI Pipelines 2019*, July 21-24, Nashville, TN, 343-353, doi:10.1061/9780784482490.036
- 4. **Mazumder, R. K.**, Salman, A. M., Li, Y. and Yu, X. (2019). Decision-making Framework for Water Distribution Systems using Fuzzy Inference and Centrality Analysis, *International Conference on Applications of Statistics and Probability in Civil Engineering*, May 26-30, Seoul, Korea, P-313, doi:10.22725/ICASP13.313
- Mazumder, R. K., Biswas, B.S.P., Helali, A. L. and Ansary, M. A. (2017). Ambient Vibration Analysis of Heritage Unreinforced Masonry Buildings in Bangladesh, 16th World Con. on Earthquake Engineering, Santiago Chile, January 9-13, Paper N° 4176, www.wcee.nicee.org/wcee/article/WCEE2017-4176.pdf
- Mazumder, R. K., Dey, R., Uddin, S. and Bhuiyan, A. R. (2015). Structural Response Analysis of Reinforced Concrete Frame with Unreinforced Masonry Infill Walls, *Int. Conference on Recent Innovation in Civil Engineering for Sustainable Development*, Dec 11-13, DUET, Bangladesh, 564-569.
- 7. **Mazumder, R. K.** and Ansary, M. A. (2012). Application of Non-Destructive Testing Techniques for Structural Condition Assessment in Bangladesh, *1st Int. Conference on Advances in Civil Engineering*, 12-14 December, CUET, Chittagong, Bangladesh, ASEE 25.
- 8. **Mazumder, R. K.**, Ahmed, M. and Ansary, M. A. (2011). Seismic Risk Evaluation on Existing RC Frame Buildings for Northern Part of Sylhet City, Bangladesh, *Proc. of 10th Int. Symposium on New Technologies for Urban Safety of Mega Cities in Asia*, October 12-14, Chiang Mai, Thailand, 173-186.

Conference Articles (Accepted)

9. Rahimi, M., **Mazumder, R. K.**, Nofal, O. M., Padgettd, J. E., Rosenheim, N., Darestanif, Y. M., Sutley, E. J., and van de Lindt, J. W. (2022). Coastal community resilience assessment using hybrid natural-physical-social performance matrices: a case study for Galveston Island, *13th Int. Conference on Structural Safety and Reliability 2021-2022*, June 22-24, Shanghai, China.

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- Mazumder, R. K., Enderami S. A., and Sutley, E. J. (2022). A Scenario-based Hurricane Analysis Framework for Community-level Building Damage Estimation, 14th Americas Conference on Wind Engineering, May 17-19, 2022, Lubbock, Texas.
- Enderami S. A., Mazumder, R. K., and Sutley, E. J. (2022). Framework for Incorporating Community Social Vulnerability in the Assessment of the Hurricane-Induced Wind Risk to Residential Buildings, 14th Americas Conference on Wind Engineering, May 17-19, 2022, Lubbock, Texas.
- 12. **Mazumder, R. K.**, and Sutley, E. J. (2022). Seismic Functionality Analysis of Buildings Integrating Essential Utilities and Road Accessibility, *the 12th National Conference on Earthquake Engineering (12NCEE)*, Salt Lake City, Utah, June 27-July 1, 2022.

Poster Presentations

- 13. **Mazumder, R. K.**, Salman, A. M., Li, Y., and Yu, X. (2021). Risk-Informed Asset Management Decision Support Model for Interdependent Water and Road Infrastructures, ASCE UESI Pipelines 2021, August 3-6, Virtual.
- 14. **Mazumder, R. K.**, Salman, A. M., Li, Y., and Yu, X. (2020). Seismic Damage and Renewal Cost Analysis of Buried Water Pipelines: A Python-based Computational Framework, ASCE UESI Pipelines 2020, August 10-13, Virtual. [the Best Poster of Pipelines 2020].
- 15. **Mazumder, R. K.**, Salman, A. M., Li, Y., and Yu, X. (2018). Risk and Resilience of Aging Water Distribution Systems, Structures Congress 2018, April 19-21, Fort Worth, TX, USA.

Data Publication

- 1. **Mazumder, R. K.**, Sutley, E. J., and Dumler, M. (2021). Data Report on Local Perceptions on Building Safety and Building Performance after the 2019 EF4 Linwood Tornado, *DesignSafe-CI*, doi:10.17603/ds2-hkcv-xp72
- Mazumder, R. K., Sutley, E. J., and Dumler, M. (2021). Data Report on Household Impact and Recovery Assessment: A longitudinal Investigation after the 2019 EF4 Linwood, Kansas Tornado, *DesignSafe-CI*, doi:10.17603/ds2-87ne-d742
- 3. Wang, T, Dumler, M., **Mazumder, R. K.**, and Sutley, E. J. (2021). Tornado Risk Perception of University of Kansas Campus Community, *DesignSafe-CI*, doi:10.17603/ds2-dw38-z509
- Sutley, E. J., Dumler, M., Mazumder, R. K., Lequesne, R., Li, J., Kirkham, W., Reed, D., Kim, J., and Thompson, T. (2021). One-year Post-tornado Repair Progress: Wave 3, in StEER - 28 May 2019 Linwood, KS EF4 Tornado Field Assessment, *DesignSafe-CI*, doi:0.17603/ds2-5ysj-a554

Research Proposal and Grants

The University of Kansas:

- 1. <u>Title</u>: Development of Community Disaster Resilience Analysis Tool by Integrating Functionality of Buildings and Critical Infrastructures Systems, Sponsor: **Coalition for Disaster Resilient Infrastructure**, Role: PI, **submitted**.
- 2. <u>Title</u>: Foundations of holistic resilience analyses and socially equitable decision making for interdependent critical infrastructures, Sponsor: **Kansas NSF EPSCoR**, amount: **\$5M**, Role: Contributor.
- 3. <u>Title</u>: Analyzing Capabilities and Potentials of Machine Learning and Artificial Intelligence for Risk Assessment and Management of Structures, Sponsor: **ASCE/SEI Special Project**, amount: **\$10,000**, Role: Co-PI.
- 4. <u>Title</u>: Household Impact and Recovery Data, Instruments and Protocols: A longitudinal investigation after the May 28, 2019 EF4 Linwood, Kansas Tornado, Sponsor: Natural Hazards Center Weather-Ready Research, supported by **National Science Foundation (NSF)**, amount: **\$2,500**, Role: PI.

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5. Title: Tornado Risk Perception Data, Instruments and Protocols: Survey of Contractors and KU Campus Community, Sponsor: Natural Hazards Center Weather-Ready Research, supported by NSF, amount: \$1,250, Role: PI.

Case Western Reserve University (participated in preparing the following proposals):

- 1. Title: Multi-Level Resilience-Based Transportation Asset Management Framework using Bayesian Network, Sponsor: National Center for Transportation Infrastructure Durability and Life-Extension at Washington State University, supported by the U.S. Department of Transportation, amount: \$125,000.
- 2. Title: A First Step Toward a Longitudinal Study of Homeowners' Proactive Actions for Managing Wildfire Risks, Quick Response Grant, Sponsor: Natural Hazards Center supported by NSF, amount: \$3,000.
- 3. <u>Title</u>: NSF Research Experiences for Undergraduates (NSF REU).

Chittagong University of Engineering and Technology:

- 1. Title: Structural Safety Assessment of Existing Buildings at CUET Campus Phase I and II, Sponsor: University Grants Commission of Bangladesh, Scientific Grant - 2014-15, amount: \$3,800, Role: Co-PI.
- 2. Title: Seismic Risk Assessment of Important Building in Chittagong City, Sponsor: University Grants Commission of Bangladesh, Scientific Grant - 2014, amount: \$1,600, Role: Co-PI.
- 3. <u>Title</u>: Seismic Safety Assessment of Govt Primary School Buildings in Chittagong, Sponsor: **University Grants Com**mission of Bangladesh, Scientific Grant - 2015, amount: \$1,800, Role: Co-PI.

Teaching Experience

Case Western Res Teaching Ass		Fall 2017 - Summer 2020
ECIV 426	Probabilistic Analysis	
ECIV 324	Timber and Masonry Design	
ECIV 310	Strength of Materials	
ENGR 200	Statics	
Chittagong University of Engineering and Technology		Spring 2013 - Summer 2016

Lecturer/Assistant Professor

EQE 6108 Dynamics of Structures and Vibration Control EQE 6110 Performance-Based Seismic Design of Structures **EQE 6111** Assessment and Strengthening of Existing Structures Training Structural Analysis and Design of RC Buildings

Major Responsibilities: Course instruction; Preparing lecture notes, homework problems and solutions; Grading homework and exams; Holding office hours; Mentoring graduate students

Supervising and Mentoring Activities

The University of Kansas: mentoring three graduate students, and one undergraduate

Case Western Reserve University: mentoring one PhD student

Chittagong University of Engineering and Technology: mentored five graduate students

Major Responsibilities:

- Helping students to acquire technical skills in structural modelling, community resilience analysis, data analysis, statistical modelling, structural reliability analysis, non-destructive testing, field investigation, etc.
- Helping students with technical writing
- Reviewing conference and journal manuscript prepared by the students

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Technical Activities and Service

Editorship

Associate Editor, Journal of Pipeline Systems Engineering and Practice, ASCE (since March 2021)

Peer reviewer for:

- Journal of Structural Safety; Journal of Structural Engineering; Journal of Sustainable Cities and Society;
- Journal of Water Resources Planning and Management; Journal of Pipeline Systems Engineering and Practice;
- Journal of Testing and Evaluation;
 International Journal of Disaster Risk Reduction;
 PLOS One;
 Energies
- ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering.

Professional Membership

- Associate Member, American Society of Civil Engineers (ASCE)
- Member, Earthquake Engineering Research Institute (EERI)
- Member, American Water Works Association (AWWA)
- Member, International Association of Life Cycle Civil Engineering (IALCCE)
- Member, Institute of Engineers, Bangladesh (IEB)

Committee Service in Professional Society:

- Member, ASCE-UESI Younger Member Engagement Committee
- Member, ASCE-UESI Technical Committee on Seismic Design of Buried Pipelines
- Member, ASCE-SEI Technical Council on Life-Cycle Performance, Safety, Reliability and Risk of Structural Systems
- Member, ASCE Ohio Infrastructure Report Card Committee 2021

Certificate and Fellowship Courses:

- UNIV 400C Future Faculty Preparation, Case Western Reserve University
- Didactics in University Teaching, UNESCO-IHE, CUET, Bangladesh
- Rapid Response Mapping in Disasters, UNOSAT, Geneva, Switzerland
- Seismology and Seismic Hazard Assessment, GFZ, Potsdam, Germany
- Earthquake Risk Mitigation, IIT Roorkee, India
- Machine Learning, e-Learning through Coursera by Stanford University
- Python Data Structure, e-Learning through Coursera by University of Michigan

Volunteer and leadership activities:

- Vice-President (2018 2019), Graduate Student Council, Case Western Reserve University
- Vice-President (2018-2020), North American Chapter, Erasmus Mundus Students and Alumni Association
- President (2017) and Vice-President (2015-17), South Asian Chapter, Erasmus Mundus Students and Alumni Association

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