Naeemul Hassan

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Associate Professor, Philip Merrill College of Journalism
Associate Professor, College of Information
University of Maryland, College Park

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EDUCATION

Ph.D., Computer Science. The University of Texas at Arlington. 2016
Dissertation: Toward Automated Fact Monitoring and Checking.

B.Sc., Computer Science and Engineering. Bangladesh University of Engineering and Technology. 2009

ACADEMIC APPOINTMENTS

University of Maryland, College Park

Associate Professor. Philip Merrill College of Journalism; College of Information. 2025–present

Assistant Professor. Philip Merrill College of Journalism; College of Information Studies (now College of Information). 2019–2025

Affiliate Assistant Professor. Department of Computer Science. 2020–2023

Prior Appointments

Assistant Professor. Department of Computer and Information Science, University of Mississippi. 2016–2019

Research Associate. Social Computing Team, Qatar Computing Research Institute (QCRI). 2013

HONORS AND AWARDS

Exemplary Researcher Award. Maryland Research Excellence Celebration, University of Maryland. 2023

Top Method Paper, Communication Theory and Methodology Division. Association for Education in Journalism and Mass Communication (AEJMC). 2023

Faculty Summer Stipend. Sally McDonnell Barksdale Honors College, University of Mississippi. 2018

Excellent Demonstration Award. International Conference on Very Large Data Bases (VLDB). 2014

RESEARCH FUNDING

The Role of News Media in Extrajudicial Killings in Bangladesh: An AI-Based Analysis (2009–2024). Press Institute Bangladesh (PIB). 2026–2027
PI, BDT 300,000 (about $2,400). One of four proposals selected from 171 submissions.

Computational Framing Analysis. OpenAI Researcher Access Program. 2026–2027
PI, $1,000.

Advancing Explainable LLM to Bridge the Knowledge–Practice Gap in Healthcare Communication. National Artificial Intelligence Research Resource (NAIRR) Pilot. PI, $5,000. 2025–2026

Measuring Chinese Influence Along the Belt and Road. Minerva Research Initiative. Co-PI, $14,656 (subaward). 2024–2026

Narrative Tracking in Ethnic Media Memo. International Center for Journalists (ICFJ). Co-PI, $18,000. 2024–2025

Local Community-level Information-Seeking and Assessing Threats to Health. University of Maryland Grand Challenges Impact Award, Pandemic Readiness Initiative. Co-PI, $22,000. 2023–2024

Institute for Trustworthy AI in Law and Society (TRAILS). National Science Foundation (NSF). Senior Personnel, $4,000. 2023–2028

Research Experiences for Undergraduates (REU) Supplement. National Science Foundation (NSF). PI, $16,000. 2021–2022

SaTC: CORE: Medium: Collaborative: BaitBuster 2.0: Keeping Users Away from Clickbait. National Science Foundation (NSF), Award 1949649. PI, $228,401. 2020–2024

RAISE: C-Accel Pilot - Track A1: Credible Open Knowledge Network. National Science Foundation (NSF). PI, $30,000 (subaward). 2019–2020

CHORD: Combating Health-oriented Disinformation. University of Mississippi Big Data Flagship Constellation Seed Grant. PI, $5,700. With Kristen Alley Swain. 2019

Undergraduate Research in Data Science. University of Mississippi Internal Grant. PI, $20,450. With Dawn Wilkins, Conrad Cunningham, J. Adam Jones, Yixin Chen. 2018

PUBLICATIONS

† marks a student author I supervised or mentored. Brackets give the paper track and acceptance rate where available.

Edited Volumes

E1. Firoj Alam, Sudipta Kar, Shammur Absar Chowdhury, **Naeemul Hassan**, Enamul Hoque, Md Tahmid Rahman Laskar, Tasnim Mohiuddin, and Md Rashad Al Hasan Rony (Eds.). 2025. *Proceedings of the Second Workshop on Bangla Language Processing (BLP-2025).* Association for Computational Linguistics. ISBN 979-8-89176-314-2. https://doi.org/10.18653/v1/2025.banglalp-1

Refereed Conference Proceedings

C1. Md Main Uddin Rony†, Ronald A. Yaros, and **Naeemul Hassan**. 2026. Can Honest Headlines Engage? Correcting Misleading Headlines to Improve Credibility, Comprehension, and Engagement. In *Social Networks Analysis and Mining: 17th International Conference (ASONAM 2025), Lecture Notes in Computer Science*. Springer, Cham, 111–119. [Short paper; acceptance rate 20%] https://doi.org/10.1007/978-3-032-14107-1_10

C2. Meiyu Li†, Wei Ai, and **Naeemul Hassan**. 2025. A Survey of Information Disorder on Video-Sharing Platforms. In *Proceedings of the 2025 International Conference on Content-Based Multimedia Indexing (CBMI)*. IEEE, 1–10. [Research paper track] https://doi.org/10.1109/

CBMI66578.2025.11339340

C3. Mohamed Bayan Kmainasi, Ali Ezzat Shahroor, Maram Hasanain, Sahinur Rahman Laskar, **Naeemul Hassan**, and Firoj Alam. 2025. LlamaLens: Specialized Multilingual LLM for Analyzing News and Social Media Content. In *Findings of the Association for Computational Linguistics: NAACL 2025*. Association for Computational Linguistics, 5642–5664. https://doi.org/10.18653/v1/2025.findings-naacl.313

C4. Md Naimul Hoque†, Ayman A. Mahfuz†, Mayukha Sridhatri Kindi†, and **Naeemul Hassan**. 2024. Towards Designing a Question-Answering Chatbot for Online News: Understanding Questions and Perspectives. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24)*. Association for Computing Machinery, 17 pages. [Acceptance rate 26.4%] https://doi.org/10.1145/3613904.3642007

C5. Yoo Yeon Sung†, Jordan Boyd-Graber, and **Naeemul Hassan**. 2023. Not all Fake News is Written: A Dataset and Analysis of Misleading Video Headlines. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Association for Computational Linguistics, 16241–16258. [Acceptance rate 17%] https://doi.org/10.18653/v1/2023.emnlp-main.1010

C6. Mohammad Ali† and **Naeemul Hassan**. 2022. A Survey of Computational Framing Analysis Approaches. In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Association for Computational Linguistics, 9335–9348. [Acceptance rate 22.1%] https://doi.org/10.18653/v1/2022.emnlp-main.633

C7. Yuhan Luo, Young-Ho Kim, Bongshin Lee, **Naeemul Hassan**, and Eun Kyoung Choe. 2021. FoodScrap: Promoting Rich Data Capture and Reflective Food Journaling Through Speech Input. In *Proceedings of the 2021 ACM Designing Interactive Systems Conference (DIS '21)*. Association for Computing Machinery, 606–618. https://doi.org/10.1145/3461778.3462074

C8. Maria D. Molina, S. Shyam Sundar, Md Main Uddin Rony†, **Naeemul Hassan**, Thai Le, and Dongwon Lee. 2021. Does Clickbait Actually Attract More Clicks? Three Clickbait Studies You Must Read. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21)*. Association for Computing Machinery, 19 pages. [Acceptance rate 26.3%] https://doi.org/10.1145/3411764.3445753

C9. S. M. Taiabul Haque, Rayhan Rashed, Mehrab Bin Morshed, Md Main Uddin Rony†, **Naeemul Hassan**, and Syed Ishtiaque Ahmed. 2021. Exploring the Tensions between the Owners and the Drivers of Uber Cars in Urban Bangladesh. *Proceedings of the ACM on Human-Computer Interaction* 5, CSCW1 (April 2021), 25 pages. https://doi.org/10.1145/3449244

C10. Md Main Uddin Rony†, Enamul Hoque, and **Naeemul Hassan**. 2020. ClaimViz: Visual Analytics for Identifying and Verifying Factual Claims. In *2020 IEEE Visualization Conference (VIS)*. IEEE, 246–250. [Short paper] https://doi.org/10.1109/VIS47514.2020.00056

C11. Md Mahfuzul Haque†, Mohammad Yousuf, Ahmed Shatil Alam†, Pratyasha Saha, Syed Ishtiaque Ahmed, and **Naeemul Hassan**. 2020. Combating Misinformation in Bangladesh: Roles and Responsibilities as Perceived by Journalists, Fact-checkers, and Users. *Proceedings of the ACM on Human-Computer Interaction* 4, CSCW2 (Oct. 2020), 32 pages. https://doi.org/10.1145/3415201

C12. Fatma Arslan, **Naeemul Hassan**, Chengkai Li, and Mark Tremayne. 2020. A Benchmark Dataset of Check-worthy Factual Claims. In *Proceedings of the Fourteenth International AAAI Conference on Web and Social Media (ICWSM)*. AAAI Press, 821–829. https://doi.org/10.1609/icwsm.v14i1.7346

C13. **Naeemul Hassan**, Amrit Poudel†, Jason Hale, Claire Hubacek†, Khandaker Tasnim Huq, Shubhra Kanti Karmaker Santu, and Syed Ishtiaque Ahmed. 2020. Towards Automated Sexual Violence Report Tracking. In *Proceedings of the Fourteenth International AAAI Conference on Web and Social Media (ICWSM)*. AAAI Press, 250–259. [Acceptance rate 20%] https://doi.org/10.1609/icwsm.v14i1.7296

C14. Aparna Moitra, **Naeemul Hassan**, Manash Kumar Mandal, Mansurul Bhuiyan, and Syed Ishtiaque Ahmed. 2020. Understanding the Challenges for Bangladeshi Women to Participate in #MeToo Movement. *Proceedings of the ACM on Human-Computer Interaction* 4, GROUP (Jan. 2020), 25 pages. https://doi.org/10.1145/3375195

C15. Abigail Garrett† and **Naeemul Hassan**. 2019. Understanding the Silence of Sexual Harassment Victims Through the #WhyIDidntReport Movement. In *Proceedings of the 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM '19)*. Association for Computing Machinery, 649–652. [Short paper] https://doi.org/10.1145/3341161.3343700

C16. **Naeemul Hassan**, Manash Kumar Mandal, Mansurul Bhuiyan, Aparna Moitra, and Syed Ishtiaque Ahmed. 2019. Can Women Break the Glass Ceiling? An Analysis of #MeToo Hashtagged Posts on Twitter. In *Proceedings of the 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM '19)*. Association for Computing Machinery, 653–656. [Short paper] https://doi.org/10.1145/3341161.3343701

C17. **Naeemul Hassan**, Manash Kumar Mandal, Mansurul Bhuiyan, Aparna Moitra, and Syed Ishtiaque Ahmed. 2019. Nonparticipation of Bangladeshi Women in #MeToo Movement. In *Proceedings of the Tenth International Conference on Information and Communication Technologies and Development (ICTD '19)*. Association for Computing Machinery, 5 pages. [Acceptance rate 28%] https://doi.org/10.1145/3287098.3287125

C18. Sameer Dhoju†, Md Main Uddin Rony†, Muhammad Ashad Kabir, and **Naeemul Hassan**. 2019. Differences in Health News from Reliable and Unreliable Media. In *Companion Proceedings of the 2019 World Wide Web Conference (WWW '19)*. Association for Computing Machinery, 981–987. https://doi.org/10.1145/3308560.3316741

C19. **Naeemul Hassan**, Mohammad Yousuf, Md Mahfuzul Haque†, Javier A. Suarez Rivas†, and Md Khadimul Islam†. 2019. Examining the Roles of Automation, Crowds and Professionals Towards Sustainable Fact-checking. In *Companion Proceedings of the 2019 World Wide Web Conference (WWW '19)*. Association for Computing Machinery, 1001–1006. https://doi.org/10.1145/3308560.3316734

C20. Sameer Dhoju†, Md Main Uddin Rony†, Muhammad Ashad Kabir, and **Naeemul Hassan**. 2019. A Large-Scale Analysis of Health Journalism by Reliable and Unreliable Media. In *MEDINFO 2019: Health and Wellbeing e-Networks for All, Studies in Health Technology and Informatics, Vol. 264*. IOS Press, 93–97. https://doi.org/10.3233/SHTI190190

C21. Volkan Senyurek, Masudul Imtiaz, and **Naeemul Hassan**. 2019. Detection of Drinking via a Wrist-Worn Inertial Sensor. In *Proceedings of the 6th International Electronic Conference on Sensors and Applications (ECSA-6)*. MDPI. https://doi.org/10.3390/ecsa-6-06590

C22. Md Main Uddin Rony†, **Naeemul Hassan**, and Mohammad Yousuf. 2018. BaitBuster: A Clickbait Identification Framework. In *Proceedings of the Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18)*. AAAI Press. [Short paper] https://doi.org/10.1609/aaai.v32i1.11378

C23. Tanay Kumar Saha, Shafiq Joty, **Naeemul Hassan**, and Mohammad Al Hasan. 2017. Regularized and Retrofitted Models for Learning Sentence Representation with Context. In *Pro-*

ceedings of the 2017 ACM Conference on Information and Knowledge Management (CIKM '17). Association for Computing Machinery, 547–556. [Acceptance rate 20%] https://doi.org/10.1145/3132847.3133011

C24. **Naeemul Hassan**, Gensheng Zhang, Fatma Arslan, Josue Caraballo, Damian Jimenez, Siddhant Gawsane, Shohedul Hasan, Minumol Joseph, Aaditya Kulkarni, Anil Kumar Nayak, Vikas Sable, Chengkai Li, and Mark Tremayne. 2017. ClaimBuster: The First-ever End-to-end Fact-checking System. *Proceedings of the VLDB Endowment* 10, 12 (Aug. 2017), 1945–1948. [Demonstration] https://doi.org/10.14778/3137765.3137815

C25. **Naeemul Hassan**, Fatma Arslan, Chengkai Li, and Mark Tremayne. 2017. Toward Automated Fact-Checking: Detecting Check-worthy Factual Claims by ClaimBuster. In *Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD '17)*. Association for Computing Machinery, 1803–1812. [Acceptance rate 17%] https://doi.org/10.1145/3097983.3098131

C26. Md Main Uddin Rony†, **Naeemul Hassan**, and Mohammad Yousuf. 2017. Diving Deep into Clickbaits: Who Use Them to What Extents in Which Topics with What Effects? In *Proceedings of the 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM '17)*. Association for Computing Machinery, 232–239. [Acceptance rate 19%] https://doi.org/10.1145/3110025.3110054

C27. **Naeemul Hassan**, Chengkai Li, and Mark Tremayne. 2015. Detecting Check-worthy Factual Claims in Presidential Debates. In *Proceedings of the 24th ACM International Conference on Information and Knowledge Management (CIKM '15)*. Association for Computing Machinery, 1835–1838. [Short paper] https://doi.org/10.1145/2806416.2806652

C28. Abolfazl Asudeh, Gensheng Zhang, **Naeemul Hassan**, Chengkai Li, and Gergely V. Zaruba. 2015. Crowdsourcing Pareto-Optimal Object Finding by Pairwise Comparisons. In *Proceedings of the 24th ACM International Conference on Information and Knowledge Management (CIKM '15)*. Association for Computing Machinery, 753–762. https://doi.org/10.1145/2806416.2806451

C29. **Naeemul Hassan**, Huadong Feng, Ramesh Venkataraman, Gautam Das, Chengkai Li, and Nan Zhang. 2014. Anything You Can Do, I Can Do Better: Finding Expert Teams by CrewScout. In *Proceedings of the 23rd ACM International Conference on Information and Knowledge Management (CIKM '14)*. Association for Computing Machinery, 2030–2032. [Demonstration] https://doi.org/10.1145/2661829.2661839

C30. **Naeemul Hassan**, Afroza Sultana, You Wu, Gensheng Zhang, Chengkai Li, Jun Yang, and Cong Yu. 2014. Data In, Fact Out: Automated Monitoring of Facts by FactWatcher. *Proceedings of the VLDB Endowment* 7, 13 (Aug. 2014), 1557–1560. [Demonstration] **Excellent Demonstration Award.** https://doi.org/10.14778/2733004.2733029

C31. Afroza Sultana, **Naeemul Hassan**, Chengkai Li, Jun Yang, and Cong Yu. 2014. Incremental Discovery of Prominent Situational Facts. In *Proceedings of the 2014 IEEE 30th International Conference on Data Engineering (ICDE)*. IEEE, 112–123. https://doi.org/10.1109/ICDE.2014.6816644

C32. Chengkai Li, Nan Zhang, **Naeemul Hassan**, Sundaresan Rajasekaran, and Gautam Das. 2012. On Skyline Groups. In *Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM '12)*. Association for Computing Machinery, 2119–2123. [Short paper] https://doi.org/10.1145/2396761.2398585

C33. S. M. Rifat Ahsan, Mohammad Saiful Islam, **Naeemul Hassan**, and Ashikur Rahman. 2010. Packet Distribution Based Tuning of RTS Threshold in IEEE 802.11. In *Proceedings of the*

IEEE Symposium on Computers and Communications (ISCC). IEEE, 1–6. https://doi.org/10.1109/ISCC.2010.5546703

Refereed Journal Articles

J1. Rachael Belcher, Danielle Sim, Marcella Meykler, Jeunice Owens-Walton, **Naeemul Hassan**, Rachel S. Rubin, and Rena D. Malik. 2023. "O" No: A Reddit Analysis of Orgasmic Dysfunction. *Sexual Medicine* 11, 6 (Dec. 2023), qfad061. https://doi.org/10.1093/sexmed/qfad061

J2. Jonathan D. Baghdadi, K. C. Coffey, Rachael Belcher, James Frisbie, **Naeemul Hassan**, Danielle Sim, and Rena D. Malik. 2023. #Coronavirus on TikTok: User Engagement with Misinformation as a Potential Threat to Public Health Behavior. *JAMIA Open* 6, 1 (April 2023), ooad013. https://doi.org/10.1093/jamiaopen/ooad013

J3. Rachael E. Belcher, Danielle Sim, Marcella Meykler, Jeunice Owens-Walton, **Naeemul Hassan**, Rachel S. Rubin, and Rena D. Malik. 2023. A Qualitative Analysis of Female Reddit Users' Experiences with Low Libido: How Do Women Perceive Their Changes in Sexual Desire? *The Journal of Sexual Medicine* 20, 3 (March 2023), 287–297. https://doi.org/10.1093/jsxmed/qdac045

J4. Amber S. Herbert, **Naeemul Hassan**, Rena D. Malik, Stacy Loeb, and Akya Myrie. 2022. Exploring Urological Malignancies on Pinterest: Content Analysis. *JMIR Cancer* 8, 3 (Aug. 2022), e36244. https://doi.org/10.2196/36244

J5. Fariha Afsana, Muhammad Ashad Kabir, **Naeemul Hassan**, and Manoranjan Paul. 2021. Automatically Assessing Quality of Online Health Articles. *IEEE Journal of Biomedical and Health Informatics* 25, 2 (Feb. 2021), 591–601. https://doi.org/10.1109/JBHI.2020.3032479

J6. Mohammad R. Hasan, **Naeemul Hassan**, Rayan Khan, Young-Tae Kim, and Samir M. Iqbal. 2018. Classification of Cancer Cells Using Computational Analysis of Dynamic Morphology. *Computer Methods and Programs in Biomedicine* 156 (March 2018), 105–112. https://doi.org/10.1016/j.cmpb.2017.12.003

J7. Nan Zhang, Chengkai Li, **Naeemul Hassan**, Sundaresan Rajasekaran, and Gautam Das. 2014. On Skyline Groups. *IEEE Transactions on Knowledge and Data Engineering* 26, 4 (April 2014), 942–956. https://doi.org/10.1109/TKDE.2013.119

Guest Editorials

G1. **Naeemul Hassan**, Chengkai Li, Jun Yang, and Cong Yu. 2019. Introduction to the Special Issue on Combating Digital Misinformation and Disinformation. *Journal of Data and Information Quality* 11, 3 (May 2019), 3 pages. https://doi.org/10.1145/3321484

Refereed Workshop Papers

W1. Md Main Uddin Rony†, Md Mahfuzul Haque†, Mohammad Ali†, Ahmed Shatil Alam†, and **Naeemul Hassan**. 2024. Exploring the Potential of the Large Language Models (LLMs) in Identifying Misleading News Headlines. In *CHI 2024 Workshop on Human-centered Evaluation and Auditing of Language Models (HEAL)*, Honolulu, HI, USA, May 2024. https://arxiv.org/abs/2405.03153

W2. Md Mahfuzul Haque† and **Naeemul Hassan**. 2022. Understanding the Narratives of Misinformation about Muslims. In *CHI 2022 Workshop on Integrating Religion, Faith, and Spirituality in HCI*.

Refereed Abstracts

A1. Rachael Belcher, Danielle Sim, Marcella Meykler, Jeunice Owens-Walton, **Naeemul Hassan**, Rachel Rubin, and Rena Malik. 2022. Female Sexual Dysfunction: A Reddit Analysis of the Lost Libido. *The Journal of Sexual Medicine* 19, Supplement 3 (Aug. 2022), S19–S20. https://doi.org/10.1016/j.jsxm.2022.05.043

Refereed Conference Presentations

P1. Wei-Ping Li, **Naeemul Hassan**, and Sarah Oates. 2025. The Truth in the Mirror: Narratives of the 2024 US Presidential Election in Ethnic Media. Presented at *Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC)*, San Francisco, CA, USA, Aug. 2025.

P2. **Naeemul Hassan**, Sarah Oates, Wei-Ping Li, and Alejandro Flores. 2025. A Comparative Computational Analysis of Misinformation and Political Narratives in U.S. Ethnic Media. Presented at *Computation + Journalism Symposium*.

P3. Md Main Uddin Rony† and **Naeemul Hassan**. 2025. Between Consensus and Ambiguity: Expert Evaluation of LLM Explanations for Misleading Headlines. Presented at *Computation + Journalism Symposium*.

P4. Md Main Uddin Rony†, Saransh Grover†, Farhana Uddin†, Yoo Yeon Sung†, Mohammad Ali†, and **Naeemul Hassan**. 2024. Perceptions and Corrections of Misleading News Headlines: Insights from Journalists and News Consumers. Presented at *Computation + Journalism Symposium*.

P5. Mohammad Ali† and **Naeemul Hassan**. 2023. Semantic-based Unsupervised Framing Analysis (SUFA): A Novel Approach for Computational Framing Analysis. Presented at *Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC)*, Washington, DC, USA, Aug. 2023. **Top Method Paper, Communication Theory and Methodology Division.** https://arxiv.org/abs/2505.15563

P6. Md Mahfuzul Haque†, Ahmed Shatil Alam†, Mohammad Yousuf, Syed Ishtiaque Ahmed, and **Naeemul Hassan**. 2020. Combating Misinformation in Bangladesh: Roles and Responsibilities as Perceived by Journalists, Fact-checkers, and Users. Presented at *AEJMC Midwinter Conference*, Norman, OK, USA, March 2020.

P7. Md Mahfuzul Haque†, Mohammad Yousuf, Zahedur Arman, Md Main Uddin Rony†, Ahmed Shatil Alam†, Kazi Mehedi Hasan†, Md Khadimul Islam†, and **Naeemul Hassan**. 2019. Fact-checking Initiatives in Bangladesh, India, and Nepal: A Study of User Engagement and Challenges. Presented at *Computation + Journalism Symposium (C+J 2019)*, Coral Gables, FL, USA, Feb. 2019.

P8. Md Main Uddin Rony†, Mohammad Yousuf, and **Naeemul Hassan**. 2019. A Large-scale Study of Social Media Sources in News Articles. Presented at *Computation + Journalism Symposium (C+J 2019)*, Coral Gables, FL, USA, Feb. 2019.

P9. Sima Bhowmik†, Md Main Uddin Rony†, Md Mahfuzul Haque†, Kristen Alley Swain, and **Naeemul Hassan**. 2019. Examining the Role of Clickbait Headlines to Engage Readers with Reliable Health-related Information. Presented at *AAAI Fall Symposium on AI for Social Good*, Nov. 2019.

P10. Fariha Afsana, Muhammad Ashad Kabir, **Naeemul Hassan**, and Manoranjan Paul. 2019. Towards Domain-specific Characterization of Misinformation. Presented at *AAAI Fall Symposium on AI for Social Good*, Nov. 2019.

P11. **Naeemul Hassan**, Mohammad Yousuf, and Md Main Uddin Rony†. 2019. "I Found This on

Facebook/Twitter": Use of Social Media as Source. Presented at *2nd Annual Conference on Politics and Computational Social Science (PaCSS)*, Washington, DC, USA.

P12. Mohammad Yousuf, **Naeemul Hassan**, and Md Main Uddin Rony†. 2018. "All the President's Tweets": A Large-scale Study of Uses of Social Media Content in Online News. Presented at *Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC)*, Washington, DC, USA, Aug. 2018.

P13. Mohammad Yousuf, **Naeemul Hassan**, and Md Main Uddin Rony†. 2018. Social Media as Source: A Large-scale Study of Mainstream and Unreliable News Sites. Presented at *AEJMC Midwinter Conference*, Norman, OK, USA, March 2018.

P14. Mohammad Yousuf, **Naeemul Hassan**, and Md Main Uddin Rony†. 2018. Boon or Bane for Political Engagement: A Large-Scale Study of Normalization of Facebook. Presented at *68th Annual Conference of the International Communication Association (ICA)*, Prague, Czech Republic, May 2018.

P15. **Naeemul Hassan**, Mohammad Yousuf, Md Mahfuzul Haque†, Javier A. Suarez Rivas†, and Md Khadimul Islam†. 2017. Towards a Sustainable Model for Fact-checking Platforms: Examining the Roles of Automation, Crowds and Professionals. Presented at *Computation + Journalism Symposium (C+J 2017)*, Evanston, IL, USA, Oct. 2017.

P16. Md Main Uddin Rony†, **Naeemul Hassan**, and Mohammad Yousuf. 2017. BaitBuster: Destined to Save You Some Clicks. Presented at *Computation + Journalism Symposium (C+J 2017)*, Evanston, IL, USA, Oct. 2017.

P17. **Naeemul Hassan**, Mark Tremayne, Fatma Arslan, and Chengkai Li. 2016. Comparing Automated Factual Claim Detection Against Judgments of Journalism Organizations. Presented at *Computation + Journalism Symposium*, Stanford, CA, USA, Sept. 2016.

P18. **Naeemul Hassan**, Bill Adair, James T. Hamilton, Chengkai Li, Mark Tremayne, Jun Yang, and Cong Yu. 2015. The Quest to Automate Fact-Checking. Presented at *Computation + Journalism Symposium*, New York, NY, USA, Oct. 2015.

P19. Brett Walenz, You Wu, Seokhyun Alex Song, Emre Sonmez, Eric Wu, Kevin Wu, Pankaj K. Agarwal, Jun Yang, **Naeemul Hassan**, Afroza Sultana, Gensheng Zhang, Chengkai Li, and Cong Yu. 2014. Finding, Monitoring, and Checking Claims Computationally Based on Structured Data. Presented at *Computation + Journalism Symposium*, New York, NY, USA, Oct. 2014.

Reports

R1. K. Hazel Kwon, Young Eun Moon, Julie Posetti, Nabeelah Shabbir, Kaylee Williams, Nermine Aboulez, Waqas Ejaz, Sarah Oates, Wei-Ping Li, **Naeemul Hassan**, and Alejandro Flores. 2025. *Disarming Disinformation: United States.* Julie Posetti, Nabeelah Shabbir, and Kaylee Williams (Eds.). International Center for Journalists (ICFJ), Oct. 2025, 70 pages. [Peer reviewed] https://www.icfj.org/sites/default/files/2025-09/ICFJ_Disarming%20Disinformation%20Research_United%20States%20Case%20Study.pdf

Refereed Posters

PS1. Ronald A. Yaros, Md Mahfuzul Haque†, Md Main Uddin Rony†, and **Naeemul Hassan**. 2020. Varying Amounts of Information in Health News Headlines Can Affect User Selection and Interactivity. Poster presented at *Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC)*, Virtual, Aug. 2020.

PS2. **Naeemul Hassan**, Chengkai Li, and Mark Tremayne. 2016. ClaimBuster: An Automated Live Fact-Checking Platform. Poster presented at *Annual Celebration of Excellence by Students (ACES), The University of Texas at Arlington*, March 2016. **President's Award.**

Preprints and Works in Progress

PP1. Yeganeh Abdollahinejad, Ahmad Mousavi, **Naeemul Hassan**, Kai Shu, Nathalie Japkowicz, Shahriar Khosravi, and Amir Karami. 2026. MOMENTA: Mixture-of-Experts Over Multimodal Embeddings with Neural Temporal Aggregation for Misinformation Detection. *arXiv preprint arXiv:2604.16172*. https://arxiv.org/abs/2604.16172

PP2. Ronald A. Yaros, Md Mahfuzul Haque†, Md Main Uddin Rony†, and **Naeemul Hassan**. 2026. Varying the Style of Headlines and Their Amount of Information Influence Users' Selection and Engagement. *SSRN preprint 6471221*. https://doi.org/10.2139/ssrn.6471221

PP3. Ronald A. Yaros, Md Mahfuzul Haque†, Md Main Uddin Rony†, and **Naeemul Hassan**. 2024. An Experimental Study Tests the Effects of Headline Style and Quantity of Information on Selection and Social Media Sharing. *SSRN preprint 5055558*. https://doi.org/10.2139/ssrn.5055558

Datasets

D1. Dataset of U.S. Immigration and Customs Enforcement (ICE) coverage in 2025 by U.S. media outlets. 2025.

D2. Questions asked to news authors versus a chatbot. 2024. https://github.com/tonmoycsedu/Questions-Asked-to-Authors-vs-Chatbot

D3. Factual claims in all U.S. presidential debates. 2020. https://doi.org/10.5281/zenodo.3609356

Patents

PT1. Mario Kosseifi, Mark Austin, Jeremy Fix, **Naeemul Hassan**, and Sheldon Kent Meredith. 2015. Classification of Indoor and Outdoor Telecommunications Events of Mobile Telecommunications Networks. U.S. Patent 9,060,282 B2, issued June 16, 2015; filed December 4, 2012. Assignee: AT&T Mobility II LLC.

INVITED TALKS

Innovative Use of AI in the Classroom. State University of New York at Old Westbury. Feb 2026

Spotting Fake News. "Truth Matters" webinar, American Institute of Integrated Thoughts (AIIT). Jul 2025

Computational Journalism Research. Clarkson University. Mar 2024

AI to Measure Health Information Quality. Network of the National Library of Medicine (NNLM). Apr 2023

Data Journalism: Using Data to Tell Impactful Stories. University of Maryland. Feb 2023

Computational Journalism Research. University of Toronto. Feb 2022

Opportunities in Computational Journalism. Minnesota State University. Oct 2021

A Posthuman Age? Science, Technology, and the Future of Civilizations. Institute of Alliance of Civilizations, Ibn Haldun University. May 2021

Computational Fact-checking. "Fact-Check Week," Korea Community Media Foundation. Apr 2021

COVID-19 in the Age of Disinformation. Philip Merrill College of Journalism, University of Maryland. Apr 2020

Fighting Disinformation to Save Democracy (panel). College of Information Studies, University of Maryland. Mar 2020

Towards Automated Fact Discovery and Checking. The Washington Post. Sep 2019

Automated Fact-checking. University of Liberal Arts Bangladesh, Dhaka. Dec 2018

Detecting Check-worthy Factual Claims in Presidential Debates. Knight Foundation. Apr 2016

WORKSHOPS AND TUTORIALS LED

Using the Tools of Digital Humanities in Journalism History and Media Research. AEJMC History Division Pre-Conference Workshop. Aug 2024

Computational Solutions against Fake News: DB vs. AI Approaches (tutorial). AAAI Conference on Artificial Intelligence (AAAI-18). Feb 2018

Computational Journalism (workshop). Southeast Journalism Conference (SEJC). Feb 2017

TEACHING

Courses Taught, University of Maryland

JOUR 152: Storytelling with Code. Fall and Spring 2020–2025; Fall 2026.

INST 414: Data Science Techniques. Spring 2024; Fall 2026.

DATA 641: Natural Language Processing. Fall 2025.

DATA 606: Algorithms of Data Science. Spring 2025.

JOUR 473/773 (formerly JOUR 479/779): Computational Journalism. Fall 2019–2022, 2024, 2026.

INST 737: Introduction to Data Science. Fall 2022, 2024.

JOUR 479P/779P: Computational Text Analysis using Python. Fall 2023.

INST 627: Data Analytics for Information Professionals. Fall 2020, 2023.

INST 808: Seminar in Research Methods and Data Analysis. Spring 2023.

INST 767: Big Data Analytics. Spring 2020–2022.

Course and Curriculum Development

JOUR 479/779 Computational Journalism (designed and developed; now offered as JOUR 473/773).

JOUR 479P/779P Computational Text Analysis using Python (designed and developed).

ADVISING

Doctoral, Completed

Md Mahfuzul Haque. Committee Co-Chair, Ph.D. in Journalism Studies. 2026
Dissertation: From Balance to Adjudication: Objectivity and the Reporting Practices of Journalists and Fact-Checkers.

Yoo Yeon Sung. Committee Co-Chair, Ph.D. in Information Studies. 2025
Dissertation: Creating and Evaluating Human-grounded AI Tools for Challenging and Trustworthy Text. Placement: Applied Scientist, Hippocratic AI.

Md Main Uddin Rony. Committee Chair, Ph.D. in Information Studies. 2025
Dissertation: When News Headlines Go Wrong: An In-depth Analysis and AI-driven Intervention of Misleading News Headlines. Placement: Assistant Professor of Computer Science, Bowling Green State University.

Wenyou Ye. Committee Member, Ph.D. in Journalism Studies. 2025

Mohammad Ali. Committee Chair, Ph.D. in Information Studies. 2025
Dissertation: Computational Framing Analysis: Proposing and Applying an Unsupervised Entity-Centric Semantic Relations Approach. Placement: Assistant Professor, University of North Dakota.

Yongle Zhang. Committee Member, Ph.D. in Information Studies. 2025

Md Naimul Hoque. Committee Member, Ph.D. in Information Studies. 2024

Frankie H. C. Wong. Committee Member, Ph.D. in Journalism Studies. 2024

Pranav Goel. Committee Member, Ph.D. in Computer Science. 2023

Wei-Ping Li. Committee Member, Ph.D. in Journalism Studies. 2023

Hazel Feigenblatt Rojas. Committee Member, Ph.D. in Journalism Studies. 2022

Andrew Harrison Otis. Committee Member, Ph.D. in Journalism Studies. 2022

Nekabari Sigalo. Committee Member, Ph.D. in Information Studies. 2020

Doctoral, In Progress

Fuad Al Abir. Committee Chair, Ph.D. in Information Studies. 2026–present

Mohamed Salama. Committee Member, Ph.D. in Journalism Studies. in progress

Hafiz Taufiq Ahmad. Committee Member, Ph.D. in Communication. in progress

Master's

Saransh Grover. Advisor, University of Maryland. PAIRing User-Centered Design with Crowdsourcing to Combat Misinformation on TikTok. 2022–2023

Kyle Moore. Advisor, University of Mississippi. Building an Automated Q-A System Using Online Forums as Knowledge Bases (M.S. thesis). Placement: Vanderbilt University. 2018–2019

Michael Blake Arender. Advisor, University of Mississippi. Utilizing Various Neural Network Architectures to Play a Game Developed for Human Players (M.S. thesis). Placement: AutoZone. 2018–2019

Andrew Stephen Henning. Advisor, University of Mississippi. Machine Learning and Natural Language Methods for Detecting Psychopathy in Textual Data (M.S. thesis). Placement: King's College London. 2016–2017

Sima Bhowmik. Research Mentor, University of Mississippi. AAAI Fall Symposium 2019 paper. Placement: University of Colorado. 2017–2019

Ahmed Shatil Alam. Research Mentor, University of Mississippi. CSCW 2020 paper. Placement: University of Oklahoma. 2017–2019

Kazi Mehedi Hasan. Research Mentor, University of Mississippi. C+J 2019 paper. Placement: Southern Illinois University. 2017–2019

Md Khadimul Islam. Research Mentor, University of Mississippi. WWW 2019 Companion paper. Placement: Wayne State University. 2016–2018

Undergraduate

Mayukha Kindi. Advisor, University of Maryland. CHI 2024 paper. Placement: Capital One. 2022–2023

Farhana Uddin. Advisor, University of Maryland. NSF BaitBuster 2.0 project. 2022–2023

Abigail Garrett. Advisor, University of Mississippi. ASONAM 2019 paper. Placement: MIT. 2018–2019

Thomas McFann. Advisor, University of Mississippi. Understanding Juuling Trends Among Differing Age and Gender Demographics Through Social Sensing (honors thesis). Placement: International Paper. 2018–2019

Amrit Poudel. Advisor, University of Mississippi. ICWSM 2020 paper. Placement: University of Notre Dame. 2017–2019

Sameer Dhoju. Advisor, University of Mississippi. WWW 2019 Companion paper. Placement: Meritize. 2017–2018

Claire Hubacek. Advisor, University of Mississippi. Classifying #MeToo Hash-tagged Tweets by Semantics to Understand the Extent of Sexual Harassment (honors thesis). Placement: Qualtrics. 2017–2018

Javier A. Suarez Rivas. Instructor, University of Mississippi. WWW 2019 Companion paper. Placement: AutoZone. 2017–2018

PROFESSIONAL SERVICE

Editorial

Guest Editor. ACM Journal of Data and Information Quality (JDIQ), Special Issue on Combating Digital Misinformation and Disinformation. 2019

Conference and Workshop Leadership

General Chair. Computation + Journalism Symposium 2027, University of Maryland. 2026–2027

Co-Organizer. Third Bangla Language Processing (BLP) Workshop, co-located with NAACL 2027. 2026–2027

Program Chair. Second Bangla Language Processing (BLP) Workshop, co-located with IJCNLP-AACL 2025. 2025

Diversity, Equity, and Inclusion Co-Chair. International AAAI Conference on Web and Social Media (ICWSM). 2021

Diversity, Equity, and Inclusion Co-Chair. Computation + Journalism Symposium. 2020

Tutorial Organizer. AAAI Conference on Artificial Intelligence (AAAI-18). 2018

Workshop Organizer. Southeast Journalism Conference (SEJC). 2017

Program Committees

Computation + Journalism Symposium (2020, 2023, 2025).

IEEE International Conference on Big Data (2019–2022).

Truth and Trust Online (TTO) (2022).

International Conference on Information and Communication Technologies and Development (ICTD) (2022).

ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS) (2021).

ACM CHI Conference on Human Factors in Computing Systems (2021).

International Conference on Information Visualization Theory and Applications (IVAPP) (2019).

The Web Conference (WWW) (2018, 2019).

ACM International Conference on Information and Knowledge Management (CIKM) (2017, 2018).

International Conference on Data Science and Systems (DSS) (2018).

IEEE International Conference on Smart Data (SmartData) (2017).

International Workshop on Summarization, Personalization and Preservation (SumPre) (2017).

Reviewing, Journals

Harvard Kennedy School (HKS) Misinformation Review.

Journal of the Association for Information Science and Technology (JASIST).

Distributed and Parallel Databases (DAPD) (2018, 2020).

Reviewing, Conferences

International AAAI Conference on Web and Social Media (ICWSM) (2020–2023).

ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW).

ACM CHI Conference on Human Factors in Computing Systems (2020).

International Conference on Very Large Data Bases (VLDB) (2014, 2017, 2018).

IEEE International Conference on Data Engineering (ICDE) (2013, 2014, 2017).

IEEE International Conference on Data Mining (ICDM) (2011–2013, 2016).

ACM International Conference on Information and Knowledge Management (CIKM) (2012, 2013, 2016).

ACM SIGMOD International Conference on Management of Data (2015).

International Conference on Extending Database Technology (EDBT) (2014).

International World Wide Web Conference (WWW) (2013).

ACM Southeast Conference (ACMSE) (2018).

International Conference on Web-Age Information Management (WAIM) (2012).

Judging

Judge. Mississippi Region VII Science and Engineering Fair. 2017

Undergraduate Poster Judge. Annual Celebration of Excellence by Students (ACES), The University of Texas at Arlington. 2016

INSTITUTIONAL SERVICE

University of Maryland

Academic Planning Advisory Committee (APAC). 2026–present

Artificial Intelligence (AI) for Maryland. 2023–present

Philip Merrill College of Journalism

AI Committee. 2024–present

Faculty Advisory Committee. 2021–2023

Data Computation Committee. 2021

Sexual Assault/Violence Awareness Committee. 2020–2021

Master's in Data Journalism Curriculum Development Committee. 2020–2021

College of Information

InfoSci Committee. 2024–2025

Game, Entertainment, and Media Analytics and Data Journalism Program Committee. 2022–2023

Communication/Public Relations Committee. 2021–2022

Interdisciplinary Data Science Exploratory Committee. 2021–2022

Diversity and Inclusion Committee. 2021–2022

Research, Centers, and Collaboration (RCC) Committee. 2019–2020

Undergraduate Course Development Committee. 2019–2020

Inter-institutional

Chair, Project Selection Committee, NSF–NIST Institute for Trustworthy AI in Law & Society (TRAILS). 2023–present

MEDIA COVERAGE

M1. PIB Selects Four Research Proposals, Each Researcher to Receive Tk 3 Lakh. The Daily Star, October 13, 2026.

M2. পিআইবির অতিথি গবেষণায় চূড়ান্ত চার প্রস্তাব, প্রত্যেকে পাচ্ছেন ৩ লাখ টাকা (Four Final Proposals Selected in PIB's Guest Research, Each Receiving Tk 3 Lakh). Prothom Alo, October 13, 2026.

M3. A Coordinated Political Bot Network on Facebook Exposed. Dismislab, August 29, 2024.

M4. Reddit Study Shows Abundance of Misinformation on Recurrent UTIs. Urology Times, February 2022.

M5. Computer Science and UM School of Journalism and New Media Researchers Combat Health Disinformation. University of Mississippi School of Journalism and New Media, January 2019.

M6. Undergraduate Students Conduct Summer Data Science Research. Ole Miss News, July 2018. By Edwin B. Smith.

M7. Crowds Have Potential in Fact-Checking. NewsLab, July 2018. By Khadimul Islam.

M8. Clickbait Headlines Grow in Mainstream Media. NewsLab, March 2018. By Deb Wenger and Khadimul Islam.

M9. Data Day: Journalism School Hosts Annual Workshop. The Daily Mississippian, November 18, 2016.

M10. Naeemul Hassan Joins CIS Faculty. Ole Miss News, November 1, 2016.

M11. Engineering Students Win Awards in ACES Competition. UT Arlington News, March 31, 2016.

M12. Graduate Students Work to Help Make Voting Process Easier. The Shorthorn, January 29, 2016. By Brittany Harborth.

M13. New Software Developed at UTA Tracks Candidates' Statements. NBC DFW, January 7, 2016. By Julie Fine.

M14. COLA Notes for December 2015. UT Arlington College of Liberal Arts Newsroom, December 8, 2015.

M15. In Search of Fact Checking's "Holy Grail": News Outlets Might Not Get There Alone. First Draft, October 30, 2015. By Craig Silverman.

M16. The "Holy Grail" of Computational Fact Checking, and What We Can Do in the Meantime. Poynter, October 21, 2015. By Alexios Mantzarlis.

M17. Reporters' Lab Projects Featured at Computation + Journalism Conference. Duke Reporters' Lab, October 6, 2015. By Julia Donheiser.

M18. Students Work to Develop New Fact Checking Database. The Shorthorn, October 24, 2014. By Benjamin Owens.

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM).

Association for Education in Journalism and Mass Communication (AEJMC).

Last updated November 11, 2026.