

MAHMOOD JASIM

CONTACT INFORMATION

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RESEARCH INTERESTS

Human Computer Interaction, Digital Civics, Information Visualization, Machine Learning

EDUCATION

- PhD in Computer Science [Present]
Manning College of Information and Computer Sciences, University of Massachusetts Amherst
- Master of Science in Computer Science [2021]
Manning College of Information and Computer Sciences, University of Massachusetts Amherst
 - CGPA 3.77 in a scale of 4.00
- Master of Science in Computer Science and Engineering [2013]
Department of Computer Science of Engineering, University of Dhaka
 - CGPA 3.96 in a scale of 4.00
- Bachelor of Science in Computer Science and Engineering [2011]
Department of Computer Science of Engineering, University of Dhaka
 - CGPA 3.50 in a scale of 4.00

PUBLICATIONS

- [1] 🏆 Eric P. S. Baumer, **Mahmood Jasim**, Ali Sarvghad, and Narges Mahyar, 2022. Of Course it's Political! A Critical Inquiry into Underemphasized Dimensions in Civic Text Visualization. *Computer Graphics Forum* 41, 3 (EuroVis).
- [2] **Mahmood Jasim**, Cristopher Collins, Ali Sarvghad, and Narges Mahyar, 2022. Supporting Serendipitous Discovery and Balanced Analysis of Online Product Reviews with Interaction-Driven Metrics and Bias-Mitigating Suggestions. In *Proceedings of ACM CHI Conference on Human Factors in Computing Systems*, 2022.
- [3] 👩 **Mahmood Jasim**, Enamul Hoque, Ali Sarvghad, and Narges Mahyar. 2021. CommunityPulse: Facilitating Community Input Analysis by Surfacing Hidden Insights, Reflections, and Priorities. In *Designing Interactive Systems Conference 2021 (DIS '21)*, June 28-July 2, 2021, Virtual Event, USA. ACM, New York, NY, USA, 18 pages.
- [4] Carolina Aragón, **Mahmood Jasim**, and Narges Mahyar. 2021. RisingEMOTIONS: Bridging Art and Technology to Visualize Public's Emotions about Climate Change. In *Creativity and Cognition (C&C '21)*, June 22–23, 2021, Virtual Event, Italy. ACM, New York, NY, USA, 10 pages.
- [5] 🏆 CommunityClick: Capturing and Reporting Community Feedback from Town Halls to Improve Inclusivity, **Mahmood Jasim**, Pooya Khaloo, Somin Wadhwa, Amy X. Zhang, Ali Sarvghad, Narges Mahyar. *PACM on Human Computer Interaction*.4, CSCW3, Article 213 (December 2020), 32 pages.
- [6] Designing Technology for Sociotechnical Problems: Challenges and Considerations., Narges Mahyar, **Mahmood Jasim**, and Ali Sarvghad, *IEEE computer graphics and applications* 40.6 (2020): 76-87
- [7] Towards Understanding Desiderata for Large-Scale Civic Input Analysis, **Mahmood Jasim**, Ali Sarvghad, Enamul Hoque, Narges Mahyar, In *Proceedings*

- of ACM CHI Conference on Human Factors in Computing Systems Extended Abstract, 2020
- [8] A Simple Low-Cost Wearable Sensor for Long-Term Ambulatory Monitoring of Knee Joint Kinematics, Brandor Oubre, Jean-Francois Daneault, Katherine Boyer, J. H. Kim, **Mahmood Jasim**, Paolo Bonato, and Sunghoon Ivan Lee, IEEE Transaction on Biomedical Engineering, 2020.
- [9] Unsupervised Video Summarization using Keyframe Extraction and Video Skimming, Shruti Jadon, **Mahmood Jasim**, IEEE 5th International Conference on Computing Communication and Automation (ICCCA), 2020
- [10] A Real-Time Hand-Signs Segmentation and Classification System Using Fuzzy Rule Based RGB Model and Grid-Pattern Analysis, Muhammad Aminur Rahaman, **Mahmood Jasim**, Md. Haider Ali, Tao Zhang, Md. Hasanuzzaman, Frontiers of Computer Science, 2018, 12 (6): 1258-1260, 2018
- [11] A Real-Time Computer Vision-Based Static and Dynamic Hand Gesture Recognition System, **Mahmood Jasim**, Tao Zhang, Md Hasanuzzaman, International Journal of Image and Graphics, 2014, Volume 14, Issue 01n02, Pages 145006 [18 Pages]
- [12] User Authentication from Mouse Movement Data Using SVM Classifier, Bashira Akter Anima, **Mahmood Jasim**, Khandaker Abir Rahman, Adam Rulapaugh, Md Hasanuzzaman, Cryptology and Network Security, 15th International Conference on, 2016, Pages: 692 – 700
- [13] Real-time Bengali and Chinese Numeral Signs Recognition using Contour Matching, Muhammad Aminur Rahaman, **Mahmood Jasim**, Tao Zhang, Md Haider Ali, Md Hasanuzzaman, Robotics and Biomimetics (ROBIO), IEEE International Conference on, IEEE, 2015, Pages: 1215 – 1220
- [14] A Novel Hand Gesture Recognition Method using Principal Directional Features, **Mahmood Jasim**, Tao Zhang, Md Hasanuzzaman, Robotics and Biomimetics (ROBIO), IEEE International Conference on, IEEE, 2013, Pages: 1264 – 1269

RESEARCH EXPERIENCE

- Research Assistant, HCI-VIS Lab [2018 to Present]
Manning College of Information and Computer Sciences, University of Massachusetts Amherst
 - Design and development of decision-support systems in Digital Civics
 - Visual analysis and sensemaking of large-scale online public-generated data
- Research Assistant, AHHA Lab [2017 to 2018]
Manning College of Information and Computer Sciences, University of Massachusetts Amherst
 - Handwriting recognition and reconstruction using wrist-worn sensor
 - Long-term monitoring of knee joint angle for patients with osteoarthritis
- Research Assistant, Robotics Group (RoboLab) [2011 - 2017]
Department of Computer Science of Engineering, University of Dhaka
 - Human Activity Recognition
 - Gesture Recognition (Object Manipulation)

WORK EXPERIENCE

- Graduate Researcher [2017 - Present]
Manning College of Information and Computer Sciences, University of Massachusetts Amherst
- Instructor [2021]
Manning College of Information and Computer Sciences, University of Massachusetts Amherst
 - Introduction to HCI
- Teaching Assistant [2018 - Present]
Manning College of Information and Computer Sciences, University of Massachusetts Amherst
 - Advanced methods in HCI
 - Introduction to HCI
 - Foundations of Data Science
- Lecturer (On leave) [2014 - Present]
Department of Computer Science of Engineering, University of Dhaka
- Lecturer [2013 - 2014]
Department of Computer Science of Engineering, University of Liberal Arts Bangladesh
- Software Engineer [2011 - 2013]
TigerIT Bangladesh Ltd.
 - Programmer, Bolt Browser
 - Researcher, facial recognition

PROJECT EXPERIENCE

- Website for Computer Science and Engineering, University of Dhaka [2015 - 2016]
 - Development and content generation
 - Module testing and UX design
- Dhaka University Accounting Information System [2014 - 2016]
 - Hardware and software requirement analysis
 - Module and UX design

TECHNICAL SKILLS

- Programming Language: JavaScript, Python, C#, C/C++
- Tools: PyTorch, Matlab, GitHub, OpenCV, Figma, Adobe Illustrator, Adobe Premier Pro
- Typesetting: L_AT_EX, Microsoft Office, Open Office

SERVICE

- Program Committee Member
 - VIS Short Paper [2022]
- Student Volunteer
 - Creativity and Cognition [June 22-23, 2021]
 - CSCW 2020 [October 17-21, 2020]
 - VIS 2020 [October 25-30, 2020]
- Paper Reviewer
 - CSCW [2021, 2022, 2023]
 - VIS [2019, 2020]

- CHI [2020, 2021, 2022]
- Creativity & Cognition [2019]

AWARDS

- Best paper award. Eurographics Working Group Conference on Data Visualization (EuroVis) [2022]
- Computing for Common Good Fellowship, College of Information and Computer Sciences, University of Massachusetts Amherst [2021]
- Honorable mention award, Designing Interactive Systems (DIS) [2021]
- Best paper award, Computer Supported Cooperative Work and Social Computing (CSCW) [2020]
- Professor Victor Lesser Graduate Scholarship in Artificial Intelligence, University of Massachusetts Amherst [2018]
- University Scholarship, Bachelor of Science Examination, University of Dhaka [2012]
- National Education Board Scholarship, HSC Examination [2006]
- National Education Board Scholarship, SSC Examination [2004]