

CONTACT
INFORMATION

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RESEARCH
INTERESTS

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

EDUCATION

- MS/PhD in Computer Science [2017 - Present]
College of Information and Computer Science, University of Massachusetts Amherst
- Master of Science in Computer Science and Engineering [2011 to 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 [2007 to 2011]
Department of Computer Science of Engineering, University of Dhaka
 - CGPA 3.50 in a scale of 4.00

PUBLICATIONS

- [1] 🏆 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. <https://doi.org/10.1145/3432912>
- [2] CommunityClick: Towards Improving Inclusivity in Town Halls. In Conference Companion Publication of the 2020 on Computer Supported Cooperative Work and Social Computing, **Mahmood Jasim**, Pooya Khaloo, Somin Wadhwa, Amy X. Zhang, Ali Sarvghad, Narges Mahyar, October 2020, pp. 37-41
- [3] 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.
- [4] 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.
- [5] Exploring How International Graduate Students in the US Seek Support, Tamanna Motahar, **Mahmood Jasim**, Syed Ishtiaque Ahmed, Narges Mahyar, In Proceedings of the ACM CHI Conference on Human Factors in Computing Systems, 2020
- [6] 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 (Under Review after Major Revision).
- [7] Video Summarization using Keyframe Extraction and Video Skimming, Shruti Jadon, **Mahmood Jasim**, <https://arxiv.org/abs/1910.04792>
- [8] 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
- [9] 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]
- [10] 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
- [11] 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
- [12] Computer vision based Bengali sign words recognition using contour analysis, Muhammad Aminur Rahaman, **Mahmood Jasim**, Md Haider Ali, Md Hasanuzzaman, Computer and Information Technology (ICCIT) 18th International Conference on, IEEE, 2015, Pages: 335 – 340
- [13] Real-time computer vision-based Bengali Sign Language recognition, Muhammad Aminur Rahaman, **Mahmood Jasim**, Md Haider Ali, Md Hasanuzzaman, Computer and Information Technology (ICCIT) 17th International Conference on, IEEE, 2014, Pages: 192 – 197
- [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	<ul style="list-style-type: none"> • Graduate Research Assistance, HCI-VIS Lab [2018 to Present] College of Information and Computer Sciences, University of Massachusetts Amherst <ul style="list-style-type: none"> ◦ Community engagement, data collection, and analysis for civic decision-making ◦ Visual analysis and sensemaking of large-scale online text information • Research Assistance, AHHA Lab [2017 to 2018] College of Information and Computer Sciences, University of Massachusetts Amherst <ul style="list-style-type: none"> ◦ 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 to 2017] Department of Computer Science of Engineering, University of Dhaka <ul style="list-style-type: none"> ◦ Human Activity Recognition ◦ Gesture Recognition (Object Manipulation)
WORK EXPERIENCE	<ul style="list-style-type: none"> • Research Assistant [2017 to Present] College of Information and Computer Sciences, University of Massachusetts Amherst • Teaching Assistant [2018 to Present] College of Information and Computer Sciences, University of Massachusetts Amherst <ul style="list-style-type: none"> ◦ Foundations of Data Science ◦ Introduction to HCI • Lecturer (On leave) [2014 to 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. <ul style="list-style-type: none"> ◦ Programmer, Bolt Browser ◦ Researcher, facial recognition
PROJECT EXPERIENCE	<ul style="list-style-type: none"> • Website for Computer Science and Engineering, University of Dhaka [2015 to 2016] <ul style="list-style-type: none"> ◦ Development and content generation ◦ Module testing and UX design ◦ cse.du.ac.bd • Dhaka University Accounting Information System [2014 to 2016] <ul style="list-style-type: none"> ◦ Hardware and software requirement analysis ◦ Module and UX design
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Programming Language: JavaScript, Python, C# • Tools: OpenCV, Matlab, GitHub, Adobe Illustrator, Adobe Premier Pro • Typesetting: L_AT_EX, Microsoft Office, Open Office
OTHER INTERESTS	<ul style="list-style-type: none"> • Cooking: Working on my book on Bangladeshi cuisine • Gaming: Two times runner-up in inter university gaming tournament in FPS category
AWARDS	<ul style="list-style-type: none"> • 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]