




Mahmood Jasim

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Research Interests

Human-Computer Interaction; Multimodal and Post-WIMP Interaction; Collaborative Exploratory Data Analysis; Information Visualization; Proactive and Trustworthy AI; Human-AI Collaboration.

Academic Appointments

Assistant Professor 2023 - Present

Division of Computer Science and Engineering, Louisiana State University

- Research on multimodal collaborative exploratory data analysis and human-AI collaboration
- Teach undergraduate and graduate courses in Database Management Systems, AI, and HCI
- Serve in graduate student and faculty recruitment committees, advising undergrad and grad researchers

Education

University of Massachusetts Amherst 2017 - 2023

Ph.D. in Computer Science

- Advisor: Narges Mahyar
- Dissertation: *Data-Driven Decision-Support Systems in Digital Civics*

University of Massachusetts Amherst 2017 - 2021

M.S. in Computer Science

- Advisor: Narges Mahyar
- Thesis: *Visual Analytics for Sensemaking of Public Input*

University of Dhaka 2011 - 2013

M.S. in Computer Science and Engineering

- Advisor: Md. Hasanuzzaman
- Thesis: *Hand Gesture Recognition for Bangla Sign Language*

University of Dhaka 2007 - 2011

B.S. in Computer Science and Engineering

- Thesis: *Security in Wireless Mesh Networks*

Publications

Peer-reviewed publications in top-tier conference and journal venues including CSCW, CHI, EuroVIS, DIS, SIGIR, TOCHI, and TVCG. Papers marked as (Accepted) are in press. Underlined first authors denote LSU graduate or undergraduate students directly supervised by me at the time of publication.

Refereed Journal Publications

Hughes, M., Overney, C., Kamra, A., Tepale, J., Hamby, E., **Jasim, M.**, and Roy, D., 2025. Voice to Vision: Enhancing Civic Decision-Making through Co-Designed Data Infrastructure. *Proceedings of the ACM on Human-Computer Interaction (CSCW1)*. (Accepted)

Liu, J.W., **Jasim, M.**, Song, J.H., Ha, S.H., Kim, J., Kim, D.Y., Lee, H., Kim, B., and Jung, H.T., 2025. Towards Understanding the Effect of Serious Games on Attention, Adherence, and Behavior for Children with ADHD. *ACM Transactions on Computer-Human Interaction*, 33(1), pp.1-46.

Jiang, Z., Rashik, M., Panchal, K., **Jasim, M.**, Sarvghad, A., Riahi, P., DeWitt, E., Thurber, F., and Mahyar, N., 2023. CommunityBots: Creating and Evaluating a Multi-Agent Chatbot Platform for Public Input Elicitation. *Proceedings of the ACM on Human-Computer Interaction*, 7(CSCW1), pp. 1–32.

Jasim, M., Khaloo, P., Wadhwa, S., Zhang, A.X., Sarvghad, A., and Mahyar, N., 2021. CommunityClick: Capturing and Reporting Community Feedback from Town Halls to Improve Inclusivity. *Proceedings of the ACM on Human-Computer Interaction*, 4(CSCW3), pp. 1–32. 🏆 (Best Paper Award)

Oubre, B., Daneault, J.-F., Boyer, K., Kim, J.H., **Jasim, M.**, Bonato, P., and Lee, S.-I., 2020. A Simple Low-Cost Wearable Sensor for Long-Term Ambulatory Monitoring of Knee Joint Kinematics. *IEEE Transactions on Biomedical Engineering*, 67(12), pp. 3483–3490.

Jasim, M., Zhang, T., and Hasanuzzaman, M., 2014. A Real-Time Computer Vision-Based Static and Dynamic Hand Gesture Recognition System. *International Journal of Image and Graphics*, 14(01n02), 1450006.

Refereed Conference Publications

Djavaheerpour, H., Yang, L., Jansen, Y., Dragicevic, P., Mahyar, N., and **Jasim, M.**, 2026. Does Background Music Matter in Data Videos? A Study of Music’s Impact on Persuasion, Engagement, and Recall. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems*, pp. 1-20.

Brehmer, M., Cordeil, M., Hurter, C., Itoh, T., Büschel, W., **Jasim, M.**, Prouzeau, A., Saffo, D., Bartram, L., Carpendale, S., Zhu-Tian, C., Cunningham, A., Dwyer, T., Huron, S., Itoh, M., Joshi, A., Kiyokawa, K., Kuzuoka, H., Lee, B., León, G., Reiterer, H., Ryskeldiev, B., Schwabish, J., Smith, B., Sumi, Y., Suzuki, R., Tang, A., Yang, Y., and Zhao, J. Challenges in Synchronous and Remote Collaboration Around Visualization. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems*, pp. 1-17.

Babb, E., Lee, C., **Jasim, M.**, and Jung, H. Defining Reality in Dementia VR: Stakeholder Perspectives on Ecological Validity for Functional Activity Training. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems*, pp. 1-17.

Hughes, M., Overney, C., **Jasim, M.**, and Roy, D. The Impacts of Transparency and Personalization on Feelings of Agency and Connection in Democratic Decision Making. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems*, pp. 1-12.

Gu, Z., Zhou, J., Lei, N.E., Kummerfeld, J.K., **Jasim, M.**, Mahyar, N., and Glassman, E.L., 2025. AbstractExplorer: Leveraging Structure-Mapping Theory to Enhance Comparative Close Reading at Scale. In *Proceedings of the 38th Annual ACM Symposium on User Interface Software and Technology (UIST)*, pp. 1-25.

Overney, C., Kessler, D.T., Fulay, S.P., **Jasim, M.**, and Roy, D., 2025. Coalesce: An Accessible Mixed-Initiative System for Designing Community-Centric Questionnaires. In *Proceedings of the 30th International Conference on Intelligent User Interfaces (IUI)*, pp. 366-389.

Rashik, M., **Jasim, M.**, Kucher, K., Sarvghad, A., and Mahyar, N., 2024. Beyond Text and Speech in Conversational Agents: Mapping the Design Space of Avatars. In *Proceedings of the 2024 ACM Designing Interactive Systems (DIS) Conference*, pp. 1875-1894.

Mysore, S., **Jasim, M.**, Song, H., Akbar, S., Randall, A.K.C., and Mahyar, N., 2023. How Data Scientists Review the Scholarly Literature. In *In Proceedings of the 2023 Conference on Human Information Interaction and Retrieval (CHIIR)*, pp. 137-152.

Mysore, S., **Jasim, M.**, McCallum, A., and Zamani, H., 2023. Editable User Profiles for Controllable Text Recommendations. In *Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval*, pp. 993-1003.

Song, J.H., **Jasim, M.**, Roberts, D., Kim, S.C., Kim, B., Rodriguez, G.M., Hord, M.K., and Jung, H.T., 2023. Investigating the Impact of Control Modes on Competency and Engagement in Serious Game Play for Children with ADHD. In *45th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)*, pp. 1-4.

Baumer, E.P., **Jasim, M.**, Sarvghad, A., and Mahyar, N., 2022. Of Course It's Political! A Critical Inquiry into Underemphasized Dimensions in Civic Text Visualization. In *Computer Graphics Forum (Vol. 41, No. 3, pp. 1-14)*. 🏆 (**Best Paper Award**)

Jasim, M., Collins, C., Sarvghad, A., and Mahyar, N., 2022. Supporting Serendipitous Discovery and Balanced Analysis of Online Product Reviews with Interaction-Driven Metrics and Bias-Mitigating Suggestions. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems*, pp. 1-24.

Jasim, M., Hoque, E., Sarvghad, A., and Mahyar, N., 2021. CommunityPulse: Facilitating Community Input Analysis by Surfacing Hidden Insights, Reflections, and Priorities. In *Proceedings of the 2021 ACM Designing Interactive Systems Conference*, pp. 846-863. 🏆 (**Best Paper Honorable Mention**)

Technical Reports and Applied Research

Elseifi, M.A., **Jasim, M.**, Chowdhury, M.A.R., and Akbar, S.R., 2025. Integration and Deployment of Novel Tools for Rapid Assessment of Pavement Conditions and Remaining Life. Technical Report No. CY1-LSU-01.

Abstracts, Workshops, Demos, and Other Peer-Reviewed Publications

Hughes, M., Overney, C., Kamra, A., Tepale, J., Hamby, E., **Jasim, M.**, and Roy, D., 2025. Voice to Vision: A Sociotechnical System for Transparent Civic Decision-Making. *CSCW Companion*.

Jasim, M. and Mahyar, N., 2025. Beyond the Prototype: Challenges of Long-Term Integration of Visual Analytics in Civic Spaces. *EuroVIS VisGap Workshop*.

Büschel, W., León, G.M., Prouzeau, A., **Jasim, M.**, Hurter, C., Cordeil, M., and Brehmer, M., 2025. The 2nd MERCADO Workshop at IEEE VIS 2025.

Amiri Besheli, M. and **Jasim, M.**, 2025. Combining AI and Crowdsourcing to Identify Misinformation in Online News. *CHI Extended Abstracts*.

Ria, N.J. and **Jasim, M.**, 2025. Synoptic: Query-Driven Multimodal Product Review Summarization System. *CHI Extended Abstracts*.

Joseph, V.T. and **Jasim, M.**, 2025. Voice of the Unheard: Conversational Challenges Between Signers and Non-Signers and Design Interventions for Adaptive SLT Systems. *CHI Extended Abstracts*.

Yang, V. and **Jasim, M.**, 2024. Animating the Narrative: A Review of Animation Styles in Narrative Visualization. *IEEE VIS*.

Jasim, M., Fatima, M., Sonni, S.R., and Mahyar, N., 2023. Bridging the Divide: Promoting Serendipitous Discovery of Opposing Viewpoints with Visual Analytics in Social Media. *VIS4Good*.

Research Funding

Funded

U.S. Department of Education 2025 - 2030
Empowered to be Gainfully Employed: Co-Developing Industry-Based Credential Curriculum and Technology in a Comprehensive Transition Program
Role: Co-PI Total Award: \$2,221,029

Pending

National Science Foundation (CAREER, IIS: HCC) Pending
Supporting Data-Driven Decision-Making through AI-Collaborated Multimodal Collaborative Exploratory Data Analysis
Role: PI Total Requested: \$699,250

National Science Foundation (RITEL) Pending
Advancing Feedback Pedagogy in Engineering Education through Human-AI Collaboration
Role: PI Total Requested: \$799,401

National Science Foundation (CyberTraining) Pending
CyberTraining: Implementation: RAPID-CI – Readiness through AI-Planning Integration for Disaster CI Workforce Development
Role: Co-PI Total Requested: \$998,860

National Science Foundation (IUSE: EDU) Pending
Scaling Visual Algebra with AI: AI-Generated Hypermath Learning to Improve Success in College Algebra
Role: Co-PI Total Requested: \$396,993

Louisiana Transportation Research Center Pending
Smartphone-Based Data Crowdsourcing for AI-Driven Road Condition Monitoring and Maintenance Planning
Role: Co-PI Total Requested: \$40,000

Industry Research Proposals (Submitted as PI)

Microsoft Future of Work Research Program 2024, 2025
Google Research Scholar Program 2024, 2025
Amazon Research Awards 2025

National Science Foundation (IIS: HCC-III) In preparation
Collaborative Research: HCC: III: Understanding, Detecting, and Recommending Fixes for Visualization Defects caused by Data Issues
Role: PI (LSU) Total Requested: \$700,000

Awards & Honors

Best Paper Award, Eurographics Conference on Visualization (EuroVIS) 2022

Best Paper Award, Computer Supported Cooperative Work and Social Computing (CSCW) 2020

Best Paper Honorable Mention, ACM Designing Interactive Systems (DIS) 2021

Computing for Common Good Fellowship, University of Massachusetts Amherst 2021

Professor Victor Lesser Graduate Scholarship in Artificial Intelligence, University of Massachusetts Amherst 2018

Bachelor of Science Examination Scholarship , University of Dhaka	2012
National Education Board Scholarship (High School Certificate) , Bangladesh	2008
National Education Board Scholarship (Secondary School Certificate) , Bangladesh	2006

Teaching Experience

Assistant Professor 2023 - Present

Division of Computer Science and Engineering, Louisiana State University

- Designed and taught undergraduate- and graduate-level courses in databases, artificial intelligence, and human-computer interaction
- Courses taught include CSC 4402 (Database Management Systems), CSC 4444 (Artificial Intelligence), and CSC 4700/7700 (Special Topics: Human-Computer Interaction)
- Emphasized project-based learning, iterative feedback, and the integration of theory with real-world system design
- Supervised team-based course projects aligned with research themes in human-AI collaboration, multimodal interaction, and data-driven decision-making

Instructor 2021

Manning College of Information and Computer Sciences, University of Massachusetts Amherst

- COMPSCI 325: Introduction to Human-Computer Interaction (100 students)
- Independently designed and delivered lectures, assignments, projects, and assessments

Teaching Faculty 2015 - 2017

Department of Computer Science and Engineering, University of Dhaka

- CSE 3201: Operating Systems
- CSE 4129: Parallel and Distributed Systems

Teaching Faculty 2014 - 2015

Department of Computer Science and Engineering, University of Liberal Arts Bangladesh

- CSE 1301: Data Structures
- CSE 3203: Software Engineering

Teaching Assistant 2018 - 2023

Manning College of Information and Computer Sciences, University of Massachusetts Amherst

- COMPSCI 690A: Advanced Methods in Human-Computer Interaction
- COMPSCI 325: Introduction to Human-Computer Interaction
- COMPSCI 190F: Frontiers of Data Science

Advising & Mentoring Experience

I mentor graduate and undergraduate researchers on projects spanning human-AI collaboration, multimodal interaction, and data-driven decision-making. A full list of advisees is available upon request.

Graduate Student Mentoring (LSU)

- **Mehrassa A. Beshili** (Ph.D.). Proactive AI for adaptive sensemaking. 2025 - Present
- **Vimal T. Joseph** (Ph.D.). Sign language translation & multimodal communication. 2024 - Present
- **Nushrat J. Ria** (Ph.D.). Post-WIMP multimodal interactions. 2024 - Present
- **Vyri Yang** (Ph.D.). Narrative visualization & data-driven storytelling. 2023 - Present
- **Saramsh Gautam** (Ph.D.). Multimodal collaboration for group sensemaking. 2023 - Present

- **Kachi Mbalalu** (M.S.). AI-assisted collaborative system. 2026 - Present
- **Parimal Kashireddy** (M.S.). LLM-based visualization debugging. 2025 - Present
- **Gray Barrow** (B.S.). LLM-based translator for accented linguistics. 2025 - Present
- **Gustavo Coloma** (B.S.). Embodied sign language generation. 2025 - Present
- **Richard Jiang** (M.S.). Fake citation detection system. 2025 - Present
- **Jefena Grace** (M.S.). Multimodal collaborative system. 2024 - 2025
- **Sima Sanjida Shila** (M.S.). Weather forecasting visualization system. 2024 - 2025
- **Vishnuvardhan Ale** (M.S.). Proactive AI assistant for social media exploration. 2024 - 2025
- **Ambica Banchode** (M.S.). AI-assisted e-commerce system. 2023 - 2024

Graduate & Undergraduate Research Mentoring (Prior Institutions)

- **Oscar Youngquist**. Extractive document summarization by example (*SuDoCu*). 2021 - 2023
- **Julian Killingback**. Early prototyping of *Kokoro*, a social media visualization platform. 2020 - 2021
- **Somin Wadhwa**. Feedback-weighted summarization module for *CommunityClick*. 2019 - 2020
- **Aditya Narula**. Early design and prototyping for *CommunityPulse*. 2018 - 2019

Service Experience

University & Departmental Service (LSU)

- Member, Faculty Hiring Committee (AI, HCI), CSC 2024 - Present
- Faculty Mentor, High School Student Research Program (HSSR) 2024 - Present
- AI Fellow, Student Success Program 2024 - 2025
- Member, Graduate Student Recruitment Committee, CSC 2023 - 2025

Conference Leadership

- Web Chair, IEEE Visualization and Visual Analytics (VIS) 2024, 2025
- Workshop Chair, IEEE Visualization and Visual Analytics (VIS) MERCADO 2025
- Area Chair, ACM CHI Conference on Human Factors in Computing Systems (CHI) 2025, 2026
- Area Chair, ACM Creativity & Cognition 2025, 2026
- Area Chair, Computer Supported Cooperative Work and Social Computing (CSCW) 2024

Conference Service

- Student Volunteer Chair, ACM Creativity & Cognition 2021
- Student Volunteer, Computer Supported Cooperative Work and Social Computing (CSCW) 2020, 2022
- Student Volunteer, IEEE Visualization and Visual Analytics (VIS) 2020

Peer Review Service

- Computer Supported Cooperative Work and Social Computing (CSCW) 2021 - Present
- IEEE Transactions on Visualization and Computer Graphics (TVCG) 2022 - Present
- ACM CHI Conference on Human Factors in Computing Systems (CHI) 2020 - Present
- ACM User Interface Software and Technology (UIST) 2025
- Computer Graphics Forum (EuroVIS) 2025
- IEEE International Symposium on Mixed and Augmented Reality (ISMAR) 2025
- IEEE Visualization and Visual Analytics (VIS) 2019 - 2020, 2022, 2024-2025
- International Journal of Human-Computer Interactions (IJHCI) 2023 - Present
- ACM Creativity & Cognition (C&C) 2019, 2020, 2025 - Present

International Journal of Human-Computer Studies (IJHCS) *2019 - 2020*

European Conference on Computer Supported Cooperative Work (ECSCW) *2022*

Invited Talks & Guest Lectures

Faculty Talk, Research in HCI, Louisiana State University *2024 - 2026*

Guest Lecture, Visualization Design, Utah State University *2024*

Guest Lecture, Human-Centered Database Design, University of Utah *2025*