

ENAMUL HOQUE PRINCE

Curriculum Vitae (June 19, 2026)

Address: 3052 Victor Phillip Dahdaleh
Building
4700 Keele Street
Toronto, Ontario, Canada, M3J 1P3

Tel: +1(416)736-2100 x 33880

Email: enamulh@yorku.ca

<http://www.yorku.ca/enamulh>

<https://scholar.google.ca/citations?user=NySeLfcAAAAJ>

RESEARCH SUMMARY

I lead pioneering research uniting Natural Language Processing (NLP) and Information Visualization (Vis)—two domains that have historically evolved separately—to define a new frontier of language-based data interaction and reasoning. As Associate Professor and Director of the Intelligent Visualization Lab at York University, I develop benchmarks, models, and agentic AI systems that make data science more accessible, inclusive, and responsible.

SELECTED IMPACT, RECOGNITION & LEADERSHIP

- Established foundational benchmarks and models for chart reasoning in multimodal AI through [ChartQA](#), [ChartQAPro](#), [Chart2Text](#), [OpenCQA](#), [UniChart](#) and [ChartGemma](#), achieving **750K+ downloads** and adoption by leading AI systems including GPT-4, Claude, and Gemini.
- **Nearly 100 peer-reviewed publications** across premier venues in NLP (ACL, EMNLP, COLM), Visualization (IEEE VIS, EuroVis), and HCI (CHI, UIST, IUI).
- **6 U.S. patents** spanning visualization, conversational analytics, and AI-assisted data interaction.
- Recipient of the IEEE VIS Best Paper Award, CVPR Workshop Best Paper Award, ACM DIS Honorable Mention Award, and Dean's Award for Distinction in Research at York Univ.
- **Principal Investigator** on **\$1.1M+** in competitive research funding from NSERC, CFI, NRC Canada, and industry partners.
- **Founder and Director** of the **Intelligent Visualization Lab**, supervising nearly 40 trainees and an interdisciplinary research program spanning NLP, Visualization, and Multimodal AI.
- Served as Area Chair for ACL Rolling Review, IEEE VIS Program Committee member, and organizer of **9** tutorials, panels, and workshops at top venues including IEEE VIS, EMNLP, and EACL.

EDUCATION AND PROFESSIONAL PREPARATION

07/ 2017- 07/2018 **Stanford University, USA**

Postdoctoral scholar, Department of Computer Science
Host: Maneesh Agrawala

09/ 2012- 05/2017 **University of British Columbia (UBC), Canada**

PhD in *Computer Science*

Advisor: Giuseppe Carenini

Committee: Tamara Munzner, Raymond Ng, Sheelagh Carpendale (external)

Thesis: Visual text analytics for online conversations

- 01/ 2010- 01/2012 **Memorial University of Newfoundland (MUN), Canada**
MSc in *Computer Science*
Advisors: Orland Hoeber and Minglun Gong
Thesis: Concept-based query expansion and interactive visualization for Web image search
- 03/2003- 08/2007 **Chittagong University of Engineering & Technology (CUET), Bangladesh**
BSc in *Computer Science & Engineering*

EMPLOYMENT RECORD

- from 07/ 2023- Associate Professor (tenured),
- School of Information Technology, York University, Canada
- Graduate faculty member in the programs of Electrical Engineering and Computer Science (**EECS**) and Information Systems & Technology (**MAIST**)
- 07/2022- 06/2025 Director,
School of Information Technology, York University
- 2024- Member, Centre for Artificial Intelligence & Society, York University
- 2024- Member, Dahdaleh Institute for Global Health Research, York University
- 07/ 2018–06/2023 Assistant Professor,
School of Information Technology, York University, Canada
- 05/2016- 09/2016 Research Intern,
Tableau Software, Palo Alto, CA, USA
Host: Vidya Setlur
- 01/2016- 05/2016 Research Associate,
Qatar Computing Research Institute (QCRI), Qatar
Host: Shafiq Joty
- 09/2012- 01/2016 Research Assistant,
University of British Columbia, Canada
- 09/2012- 04/2013, Research Assistant,
09/2016-06/2017 University of British Columbia, Canada
- 01/2010- 12/2011 Research Assistant,
Memorial University of Newfoundland, Canada
- 03/2008- 12/2009, Lecturer,
12/2011-08/2012 Chittagong University of Engineering and Technology, Bangladesh

AWARDS AND HONORS

- 2025 [Best Paper Award](#) for short paper in IEEE Visualization (VIS), 2025.

- 2022 [Dean's award for Distinction in Research](#), Faculty of Liberal Arts & Professional Studies, York University
- 2022-2023 Research Leaders Release Program (RLRP) award for the project titled "*Towards inclusive and accessible data visualizations and analytics*" from the Faculty of LA&PS, York University. I received a reduction of **1.5 FCE** teaching load for demonstrating research leadership.
- 2021 Best Paper Honorable Mention Award for paper in ACM Conference on Designing Interactive Systems (DIS), 2021
- 2021 Best Paper in CVPR workshop on Chart Question Answering, 2021
- 2021 Special Recognitions for Outstanding Reviews, ACM Conference on Human Factors in Computing Systems (CHI), 2021
- 2012-2016 Faculty of Science graduate award, University of British Columbia
- 2015, 2016 Travel awards, IUI Conference
- 2014 Travel awards, ACL Conference
- 2012 Best prototype award, Human-computer interaction Graduate course, UBC
- 2011 Fellow of the school of graduate studies, Memorial University, Canada
- 2010-2011 School of graduate studies award, Memorial University, Canada
- 2003-2007 University Merit Scholarship, CUET, Bangladesh

TEACHING

(A) CURRICULUM DEVELOPMENT

At York University, I have developed the following new courses:

- **Information Visualization (ITEC 6170, Graduate Course):** In this course, students design, develop, and study interactive visualization techniques for the analysis, exploration, and explanation of large datasets. Topics include principles of visual perception, data and task abstractions, visual encodings of data, interaction methods, and visual analytics. Students get hands-on experience through group projects and programming assignments.
- **Data Visualization (ITEC 3310, Undergraduate Course):** I designed this new course for undergraduate students from the Information Technology as well as the newly proposed Data Science programs. This course adopts a subset of foundational material from the graduate course (ITEC 6170) augmented with more hands-on exercises using Python programming libraries (e.g., Pandas, Matplotlib, Altair) and software tools (e.g., Tableau). Topics include principles of visual perception, data cleaning, implementing static and interactive visualizations, and visual data storytelling.
- **Generative AI (Graduate Course, to be offered in 2026):** This course introduces the foundations and applications of Generative Artificial Intelligence (AI). It covers Large Language

Models (LLMs), including language modeling, model architectures, training phases, prompt design, and responsible usage. Students delve into interactive text generation, code and language generation, multimodal and agentic AI systems, AI Ops, and ethical aspects of Generative AI.

(B) COURSES TAUGHT

(i) At York University

Course Code	Course Title	Level	Term	Class Size	Evaluation* (Teaching skills)
ITEC 3230A	Designing User Interfaces	Undergraduate	F24	45	4.4/5
ITEC 3230A	Designing User Interfaces	Undergraduate	F23	47	4.0 /5
ITEC 3230A	Designing User Interfaces	Undergraduate	F22	47	3.6 /5
ITEC 6170	Information visualization	Graduate	W22	15	4.9/5
ITEC 3230M	Designing User Interfaces	Undergraduate	W22	47	4.7/5
ITEC 3230A	Designing User Interfaces	Undergraduate	F21	50	4.4/5
ITEC 3230B	Designing User Interfaces	Undergraduate	F21	50	4.5/5
ITEC 6170	Information visualization	Graduate	W21	9	4.8/5
ITEC 3230M	Designing User Interfaces	Undergraduate	W21	48	4.7/5
ITEC 3230A	Designing User Interfaces	Undergraduate	F20	50	4.7/5
ITEC 3230B	Designing User Interfaces	Undergraduate	F20	50	4.7/5
ITEC 3230M	Designing User Interfaces	Undergraduate	W20	35	5.0/5
ITEC 3230N	Designing User Interfaces	Undergraduate	W20	49	4.8/5
ITEC 6970	Information visualization	Graduate	F19	20	4.0/5
ITEC 3230A	Designing User Interfaces	Undergraduate	F19	49	4.7/5
ITEC 3230M	Designing User Interfaces	Undergraduate	W19	41	6.5/7
ITEC 3230A	Designing User Interfaces	Undergraduate	F18	48	6.5/7

The last column shows the mean score of students for each course with respect to the overall effectiveness of the instructor (measured on a Likert scale).

Other teachings

- Directed reading (ITEC 4000): 7 students (2018-2020)
- Directed reading (ITEC 6002): 3 students (2018-2021)
- Directed reading (GS EECS 6002): 5 students (2018-2021)

(ii) Teaching Assistant, University of British Columbia

- CPSC 422: Artificial Intelligence 2 (Fall 2016, Fall 2015)
- CPSC 213: Introduction to Computer Systems (Summer 2015)

(iii) Teaching Assistant, Memorial University of Newfoundland

- CS 1700: Computer Basics 2010-11(Winter, Fall)

(iv) Lecturer, Chittagong University of Engineering and Technology

- Object-Oriented Programming (2009)

- Computer Basics and Programming (2008)
- Algorithm Design (2008)
- Computer Graphics (2009)
- Fuzzy Logic & Neural Network (2009)

(C) CONTINUING EDUCATION ACTIVITIES: TUTORIALS AT CONFERENCES

- 10/2022 Enamul Hoque and Shafiq Joty, [NLP4Vis: Natural Language Processing for Information Visualization](#), tutorial at IEEE VIS conference, Oklahoma, USA.
- 10/2023 Enamul Hoque, [NLP4Vis: Natural Language Processing for Information Visualization](#), tutorial at IEEE VIS conference, Oklahoma, USA.
- 11/2023 Jesse Vig, Shafiq Joty, Enamul Hoque [NLP+Vis: NLP Meets Visualization, Tutorial at EMNLP](#), Singapore.
- 10/2024 Enamul Hoque [LLM4Vis: Large Language Models for Visualizations, Tutorial at IEEE Vis](#), Florida, USA.
- 11/2025 Enamul Hoque [MLLM4Vis: Multimodal Large Language Models for Visualizations, Tutorial at IEEE Vis](#), Vienna, Austria.
- 03/2026 Enamul Hoque, Shafiq Joty, Ahmed Masry, amira Ebrahimi Kahou, Spandana Gella, [Multimodal Large Language Models for Human-AI Interaction: Foundations, Agents, and Inclusive Applications](#), Tutorial at EACL, Rabat, Morocco.
- 05/2026 Firoj Alam, Shammur Absar Chowdhury, Enamul Hoque, [Multilingual and Multimodal LLMs in the Wild](#), Language Resources and Evaluation Conference (LREC), Palma de Mallorca, Spain

RESEARCH GRANTS

(A) SUMMARY OF GRANTS

Total grant awarded as sole **Principal Investigator: 1.11 million CAD.**

(B) DETAILS

- 2025-2029 Discovery grant, “*Natural Language Interactions with Visual Analytics*” (**\$215,500**) for five years, Natural Sciences and Engineering Research Council (NSERC) of Canada, (Principal investigator).
- 2025 Mitacs Accelerate, *StarDoc: Multimodal Document Understanding* (**17,000**), Industry Partner: ServiceNow (Principal investigator).
- 2023 – 2024 Catalyzing Interdisciplinary Research Clusters, “*Towards inclusive and accessible data visualizations and analytics*” (**\$230,000**), VPRI, York University, (Principal investigator).

- 2024-2024 PaliGemma Academic Program (**\$5,000**), with Ahmed Masry (PhD student), Alphabet.
- 2021 – 2023 Canadian Foundation for Innovation - John R. Evans Leaders Fund (**CFI-JELF**) and Ontario Research Funds (**ORF**) Fund - Research Infrastructure (ORF-RI) “*Establishment of the Intelligent Visualization Laboratory*” (**\$329,452**) (**Principal investigator**).
- 2023- Canadian Foundation for Innovation, Infrastructure Operating Fund (IOF), (**\$34,418**) (**Principal investigator**).
- 2019 - 2025 Discovery grant, “*Natural Language Interactions with Visual Analytics*” (**\$215,500**) for five years including Covid-19 Supplement (\$5K), Natural Sciences and Engineering Research Council (**NSERC**) of Canada, (**Principal investigator**).
- 2022 Minor research grant, “*Chart-to-data: Automatic Extraction of Data from a Chart*” (**\$4,988**), Faculty of Liberal Arts & Professional Studies, York University (**Principal investigator**).
- 2021 Minor research grant, “*Automatic Chart Question Answering Using Deep Neural Models*” (**\$4,902**), Faculty of Liberal Arts & Professional Studies, York University (**Principal investigator**).
- 2019 – 2020 Innovation York AI Industry Partnership Fund supported by the National Research Council of Canada Industrial Research Assistance Program (**NRC IRAP**), “*Biomedical literature mining for clinical genomics*” (**\$12,000**), (**Principal investigator**).
- 2019 Minor research grant, “*Searching the Visual Style and Structure of Data Visualizations*” (**\$5,000**), Faculty of Liberal Arts & Professional Studies, York University (**Principal investigator**).
- 2018- Startup grant (**\$30,000**), Faculty of Liberal Arts & Professional Studies, York University (**Principal investigator**).

PUBLICATIONS

Leading conferences in computer science are highly selective—typically accepting only 15–30% of submissions after rigorous peer review—and often exceed journals in selectivity, visibility, and impact. My publications span premier conferences across NLP (ACL, EMNLP, COLM, COLING), Visualization (IEEE VIS, EuroVis), and HCI (CHI, UIST, IUI, DIS), as well as top journals such as CL, TVCG, and CGF. Following field conventions, *students are typically listed first; **bold** names denote my students or myself as a student author.*

(A) SUMMARY OF PUBLICATIONS

Number of publications:	92
- Book:	1
- Refereed journal articles:	18

- Refereed conference papers:	50
- Referred workshop papers:	8
- Refereed book chapters:	2
- Others (posters, student consortiums)	4
- Non-refereed publications	3
- Patents	6
Invited talks	33

(B) LIST OF PEER-REVIEWED PUBLICATIONS

Book

[B1] Enamul Hoque, *Large Language Models for Information Visualization (forthcoming)*, Springer, 2026.

Journal Articles

[J18] Anik Mahmud Shanto, Fahim Shakil Tamim, Sanjida Jamal Priya, Mohammed Moshiul Hoque, Enamul Hoque, [TSFC: A Hierarchical Classification Framework for Multimodal Commercial Contents in Bengali](#), *IEEE Access*. Vol. 14, pp. 28411 – 28434, 2026. **IF: 3.6**

[J17] Md Rajib Hossain, Mohammed Moshiul Hoque, M. Ali Akber Dewan, Enamul Hoque, Nazmul Siddique. [AuthorNet: Leveraging attention-based early fusion of transformers for low-resource authorship attribution](#), *Expert Systems with Applications*, Vol. 262, 125643, 2025. **IF: 7.5**

[J16] Md. Rajib Hossain, Mohammed Moshiul Hoque, M. Ali Akber Dewan, Enamul Hoque, Nazmul Siddique, [AFuNet: An Attention-based Fusion Network to Classify Texts in a Resource-Constrained Languages](#), *Neural Computing and Applications*, 37: 6725–6748, 2025. **IF: 6.5**

[J15] Enamul Hoque and **Saidul Islam**, [Natural Language Generation for Visualizations: State of the Art, Challenges and Future Directions](#), *Journal of Computer Graphics Forum (CGF)*, Vol: 44(1), pp. 1-23, 2024. **IF: 2.7**

[J14] Enamul Hoque, **Parsa Kavehzadeh and Ahmed Masry**, [Chart question answering: State of the art and future directions](#), *Journal of Computer Graphics Forum (CGF)*, (Proc. *EuroVis*), vol. 41 (3): 555-572, DOI: <https://doi.org/10.1111/cgf.14573>, 2022. **IF: 2.7**

[J13] Eftekhari Hossain, Mohammed Moshiul Hoque, Enamul Hoque, Md. Saiful Islam, [A deep attentive multimodal learning approach for disaster identification from social media posts](#), *IEEE Access*, vol. 10, pp. 46538-46551, doi: 10.1109/ACCESS.2022.3170897, 2022. **IF: 3.6**

[J12] **Tahmid Rahman**, Enamul Hoque and Jimmy Huang, [Domain adaptation with pre-trained Transformers for query focused abstractive text summarization](#), *Journal of Computational Linguistics (CL)*, 48 (2): 279–320, 2021. **IF: 7.8**

[J11] Imran Chowdhury, Abdul Moeid, Enamul Hoque, Muhammad Ashad Kabir, Md. Sabir Hossain and Mohammad Mainul Islam, [Designing and evaluating multimodal interactions for facilitating visual analysis with dashboards](#), *IEEE Access*, vol. 9, pp. 60-71, DOI: 10.1109/ACCESS.2020.3046623, 2021. **IF: 3.6**

[J10] **Enamul Hoque** and Maneesh Agrawala, [Searching the visual style and structure of D3 visualizations](#), *IEEE Transactions on Visualization and Computer Graphics (Proc. IEEE InfoVis)*, 26(1): 1236-1245, 2019. **IF: 6.9**

[J9] **Enamul Hoque** and Giuseppe Carenini, [Interactive topic hierarchy revision for exploring a collection of online conversations](#), *Journal of Information Visualization (IV)*, 18(3): 318-338, 2018. **IF: 2.0**

[J8] **Enamul Hoque**, Vidya Setlur, Melanie Tory and Isaac Dykeman, [Applying pragmatics principles for interaction with visual analytics](#), *IEEE Transactions on Visualization and Computer Graphics (Proc. IEEE VAST)*, 24(1): 309-318, 2017. **IF: 6.9**

[J7] **Enamul Hoque** and Giuseppe Carenini, [Interactive topic modeling for exploring asynchronous online conversations: design and evaluation of ConVisIT](#), *ACM Transactions on Interactive Intelligent Systems (THIS)*, 6:(1), pp. 7:1-7:24, 2016. **IF: 4.8**

[J6] **Enamul Hoque** and Giuseppe Carenini, [ConVis: A visual text analytic system for exploring blog conversations](#), *Journal of Computer Graphics Forum (EuroVis)*, 33(3): 221-230, 2014. **IF: 2.7**

[J5] Cristina Conati, Giuseppe Carenini, **Enamul Hoque**, Ben Steichen and Dereck Toker, [Evaluating the impact of user characteristics and different layouts on an interactive visualization for decision making](#), *Journal of Computer Graphics Forum (EuroVis)*, 33(3): 371-380, 2014. **IF: 2.7**

[J4] **Enamul Hoque**, Orland Hoeber, Minglun Gong, [CIDER: Concept-based image diversification, exploration, and retrieval](#), *Journal of Information Processing & Management (IPM)*, 49(5):1122-1138, 2013. **IF: 8.1**

[J3] **Enamul Hoque**, Orland Hoeber, Minglun Gong, [Balancing the trade-offs between diversity and precision for Web image search using concept-based query expansion](#), *Journal of Emerging Technologies in Web Intelligence (JETWI)*, 4(1): 26-34, 2012.

[J2] **Enamul Hoque**, Orland Hoeber, Grant Strong, Minglun Gong, [Combining conceptual query expansion and visual search results exploration for Web image retrieval](#), *Journal of Ambient Intelligence and Humanized Computing (JAIHC)*, 4(3): 389-400, 2011. **IF: 5.6**

[J1] Gahangir Hossain, **Enamul Hoque**, M. I. Monir, M. A. Sharif, [Automatic stemming and its impact in Bangla information retrieval](#), *Computer Science and Engineering Research Journal (CSERJ)*, 5: 17-23, ISSN: 1990-4010, 2008.

Conference Papers

[C50] **Md Tahmid Rahman Laskar, Mohammed Saidul Islam**, Mir Tafseer Nayeem, Amran Bhuiyan, **Mizanur Rahman**, Shafiq Joty, Enamul Hoque, Jimmy Huang. Lost in Translation: Do LVLM Judges Generalize Across Languages?, In the Conference on *Annual Meeting of the Association for Computational Linguistics (ACL)*, accepted, 2026.

[C49] Hossain, Mir Rayat Imtiaz, Enamul Hoque, Giuseppe Carenini, [Can Human Gaze Improve VLM Robustness to Misleading Data Visualizations](#), In Proceedings of the Advanced Visual Interfaces (AVI), (short paper), 2026.

[C48] **Mizanur Rahman, Mohammed Saidul Islam, Md Tahmid Rahman Laskar**, Shafiq Joty, Enamul Hoque, [Aligning Text, Code, and Vision: A Multi-Objective Reinforcement Learning Framework for Text-to-Visualization](#), In Proceedings of the Conference on European Chapter of the ACL (EACL), pp. 6733–6750, 2026.

[C47] **Aaryaman Kartha, Ahmed Masry, Mohammed Saidul Islam, Thinh Lang**, Shadikur Rahman, **Ridwan Mahbub, Mizanur Rahman, Mahir Ahmed**, Md Rizwan Parvez, Enamul Hoque, Shafiq Joty, [DashboardQA: Benchmarking Multimodal Agents for Question Answering on Interactive Dashboards](#), In Findings of the Conference on European Chapter of the ACL (EACL), pp. 3385-3407, 2026.

[C46] **Md Tahmid Rahman Laskar, Mohammed Saidul Islam, Ridwan Mahbub, Mizanur Rahman**, Amran Bhuiyan, Israt Jahan, Mir Tafseer Nayeem, Shafiq Joty, Enamul Hoque, Jimmy Huang, [Deploying Tiny LVLM Judges for Real-World Evaluation of Chart Models: Lessons Learned and Best Practices](#), In Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), Industry Track, pp. 1906–1918, 2025.

[C45] **Ahmed Masry**, Megh Thakkar, Patrice Bechard, Sathwik Tejaswi Madhusudhan, Rabiul Awal, Shambhavi Mishra, Akshay Kalkunte Suresh, Srivatsava Daruru, Enamul Hoque, Spandana Gella, Torsten Scholak, Sai Rajeswar, [ColMate: Contrastive Late Interaction and Masked Text for Multimodal Document Retrieval](#), In Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), *Industry Track*, pp. 2071–2080, 2025.

[C44] **Mizanur Rahman, Md Tahmid Rahman Laskar**, Shafiq Joty, Enamul Hoque, [Text2Vis: A Challenging and Diverse Benchmark for Generating Multimodal Visualizations from Text](#), In Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), pp. 31837–31862, 2025.

[C43] **Ahmed Masry**, Juan A. Rodriguez, Tianyu Zhang, Suyuchen Wang, Chao Wang, Aarash Feizi, Akshay Kalkunte Suresh, Abhay Puri, Xiangru Jian, Pierre-Andre Noel, Sathwik Tejaswi Madhusudhan, Marco Pedersoli, Bang Liu, Nicolas Chapados, Yoshua Bengio, Enamul Hoque, Christopher Pal, Issam H. Laradji, David Vazquez, Perouz Taslakian, Spandana Gella, Sai Rajeswar, [AlignVLM: Bridging Vision and Language Latent Spaces for Multimodal Understanding](#), The Annual Conference on Neural Information Processing Systems (NeurIPS) 2025.

[C42] **Ridwan Mahbub, Mohammed Saidul Islam, Md Tahmid Rahman Laskar, Mizanur Rahman**, Mir Tafseer Nayeem, Enamul Hoque, [The Perils of Chart Deception: How Misleading Visualizations Affect Vision-Language Models](#), In *Proceedings of IEEE Visualization* (short paper), **[🏆 Best Paper Award]**, pp. 1-4, 2025.

[C41] **Ridwan Mahbub, Mohammed Saidul Islam**, Mir Tafseer Nayeem, Md Tahmid Rahman Laskar, **Mizanur Rahman**, Shafiq Joty, Enamul Hoque, [From Charts to Fair Narratives: Uncovering](#)

and Mitigating Geo-Economic Biases in Chart-to-Text, In Proceedings of the Conference on Empirical Methods in Natural Language Processing (**EMNLP**), pp. 8917–28935, 2025.

[C40] **Ahmed Masry**, Abhay Puri, Masoud Hashemi, Juan A Rodriguez, Megh Tshakkar, Khyati Mahajan, Vikas Yadav, Sathwik Tejaswi Madhusudhan, Alexandre Piché, Dzmitry Bahdanau, Christopher Pal, David Vazquez, Enamul Hoque, Perouz Taslakian, Sai Rajeswar, Spandana Gella, [BigCharts-R1: Enhanced Chart Reasoning with Visual Reinforcement Finetuning](#), In *Proceedings of Conference on Language Modeling (COLM)*, 2025.

[C39] **Ahmed Masry**, Mohammed Saidul Islam, Mehedi Ahmed, Adit Bajaj, Fahim Kabir, Aaryaman Kartha, Md Tahmid Rahman Laskar, Enamul Hoque, Shafiq Joty. [ChartQAPro: A More Diverse and Challenging Benchmark for Chart Question Answering](#), In the Conference on *Annual Meeting of the Association for Computational Linguistics (ACL Findings)*, pp. 19123–19151, 2025.

[C38] **Md Tahmid Rahman Laskar**, Israt Jahan, Elham Dolatabadi, Chun Peng, Enamul Hoque, Jimmy Huang. [Improving Automatic Evaluation of Large Language Models \(LLMs\) in Biomedical Relation Extraction via LLMs-as-the-Judge](#), In the Conference on *Annual Meeting of the Association for Computational Linguistics (ACL)*, pp. 25483–25497, 2025.

[C37] **Md Tahmid Rahman Laskar, Mohammed Saidul Islam, Ridwan Mahbub, Ahmed Masry, Mizanur Rahman**, Amran Bhuiyan, Mir Tafseer Nayeem, Shafiq Joty, Enamul Hoque, Jimmy Huang. [Judging the Judges: Can Large Vision-Language Models Fairly Evaluate Chart Comprehension and Reasoning?](#) In the Conference on *Annual Meeting of the Association for Computational Linguistics (ACL)*, Industry track, pp. 1203–1216, 2025.

[C36] **Ahmed Masry**, Megh Thakkar, **Aayush Bajaj, Aaryaman Kartha**, Enamul Hoque, Shafiq Joty. [ChartGemma: Visual instruction-tuning for chart reasoning in the wild](#), In the Conference on *Proceedings of the 31st International Conference on Computational Linguistics: Industry Track, (COLING)*, pp. 625–643, 2025.

[C35] Shayekh Bin Islam, Md Asib Rahman, K S M Tozammel Hossain, Enamul Hoque, Shafiq Joty, Md Rizwan Parvez. [Open-RAG: Enhanced Retrieval Augmented Reasoning with Open-Source Large Language Models](#), In Proceedings of the Empirical Methods in Natural Language Processing (**EMNLP Findings**), pp. 14231–14244, 2024.

[C34] **Mohammed Saidul Islam, Md Tahmid Rahman Laskar**, Md Rizwan Parvez, Enamul Hoque, Shafiq Joty. [Automated Data-Driven Storytelling with Visualizations and Texts](#), In Proceedings of the Empirical Methods in Natural Language Processing (**EMNLP**), pp. 19253–19286, 2024.

[C33] **Mohammed Saidul Islam**, Raian Rahman, **Ahmed Masry, Md Tahmid Rahman Laskar**, Mir Tafseer Nayeem, Enamul Hoque. [Are Large Vision Language Models up to the Challenge of Chart Comprehension and Reasoning?](#) In Proceedings of the Empirical Methods in Natural Language Processing (**EMNLP Findings**), pp. 3334–3368, 2024.

[C32] **Md Tahmid Rahman Laskar**, Sawsan Alqahtani, M Saiful Bari, **Mizanur Rahman**, Mohammad Abdullah Matin Khan, Haidar Khan, Israt Jahan, Amran Bhuiyan, Chee Wei Tan, Md Rizwan Parvez, Enamul Hoque, Shafiq Joty, Jimmy Huang. [A Systematic Survey and Critical Review](#)

on Evaluating Large Language Models: Challenges, Limitations, and Recommendations. In Proceedings of the Empirical Methods in Natural Language Processing (**EMNLP**), 3785–13816, 2024.

[C31] **Ahmed Masry, Mehrad Shahmohammadi**, Md Rizwan Parvez, Enamul Hoque, and Shafiq Joty. [ChartInstruct: Instruction Tuning for Chart Comprehension and Reasoning](#), In the Conference on *Annual Meeting of the Association for Computational Linguistics (ACL Findings)*, pp. 10387–10409, 2024.

[C30] Mohsinul Kabir, **Mohammed Saidul Islam, Md Tahmid Rahman Laskar**, Mir Tafseer Nayeem, M Saiful Bari, and Enamul Hoque. [BenLLMEval: A Comprehensive Evaluation into the Potentials and Pitfalls of Large Language Models on Bengali NLP](#), In the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (**LREC-COLING**), pp. 2238–2252, 2024.

[C29] **Ahmed Masry**¹, **Parsa Kavehzadeh**¹, Xuan Long Do, Enamul Hoque, and Shafiq Joty, [UniChart: A Universal Vision-language Pretrained Model for Chart Comprehension and Reasoning](#), In Proceedings of the Empirical Methods in Natural Language Processing (**EMNLP**), pp. 14662–14684, 2023.

[C28] **Md Tahmid Rahman Laskar, Mizanur Rahman**, Israt Jahan, Enamul Hoque, Jimmy Xiangji Huang. [Can Large Language Models Fix Data Annotation Errors? An Empirical Study Using Debatepedia for Query-Focused Text Summarization](#), In Proceedings of the Empirical Methods in Natural Language Processing (**EMNLP Findings**), pp. 10245–10255, 2023.

[C27] **Md Zubair Ibne Alam, Shehnaz Islam**, Enamul Hoque. [SeeChart: Enabling Accessible Visualizations Through Interactive Natural Language Interface For People with Visual Impairments](#), In Proceedings of ACM Intelligent User Interfaces (**IUI**), pp. 46–64, 2023.

[C26] **Shankar Kantharaj**, Xuan Long, Rixie Tiffany, Jia Qing, Enamul Hoque, and Shafiq Joty. [OpenCQA: Open-ended Question Answering with Charts](#), In Proceedings of the Empirical Methods in Natural Language Processing (**EMNLP**), pp. 11817–11837, 2022.

[C25] **Ahmed Masry**, Do Xuan Long, Jia Qing Tan, Shafiq Joty, **Enamul Hoque**, [ChartQA: A Benchmark for Question Answering about Charts with Visual and Logical Reasoning](#), In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL Findings)*, pp. 2263–2279, 2022.

[C24] **Shankar Kantharaj**², Rixie Tiffany Ko Leong¹, Xiang Lin¹, **Ahmed Masry**¹, Megh Thakkar¹, **Enamul Hoque**, and Shafiq Joty, [Chart-to-Text: A Large-Scale Benchmark for Chart Summarization](#), In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*, pp. 4005–4023, 2022.

¹ Equal contribution.

² Equal contribution. Listing order is based on the alphabetical ordering of author surnames.

[C23] Raymond Li, Enamul Hoque, Giuseppe Carenini, Richard Lester and Raymond Chau, [ConVIScope: Visual Analytics for Exploring Patient Conversations](#), In *Proceedings of IEEE Visualization* (short paper), 2021.

[C22] Mahmood Jasim, Enamul Hoque, Narges Mahyar, and Ali Sarvghad, [CommunityPulse: Facilitating Community Input Analysis by Surfacing Hidden Insights, Reflections, and Priorities](#), In *Proceedings of the ACM Conference on Designing Interactive Systems (DIS)* [**🏆 Best Paper Honorable Mention Award**], pp 846–863, 2021.

[C21] **Jason Obeid** and Enamul Hoque, [Chart-to-Text: Generating Natural Language Descriptions for Charts by Adapting the Transformer Model](#), In *Proceedings of the International Conference on Natural Language Generation (INLG)*, pp. 138-147, 2020.

[C20] **Tahmid Rahman**, Enamul Hoque and Jimmy Huang, [WSL-DS: Weakly Supervised Learning with Distant Supervision for Query Focused Multi-Document Abstractive Summarization](#), In *Proceedings of the International Conference on Computational Linguistics (COLING)*, pp. 5647–5654, 2020 (Short paper).

[C19] **Md Main Uddin Rony**, Enamul Hoque and Naeemul Hassan, [ClaimViz: Visual Analytics for Identifying and Verifying Factual Claims](#), In *Proceedings of IEEE Visualization*, pp. 246-250, 2020 (short paper).

[C18] Vidya Setlur, Enamul Hoque, Dae Hyun Kim, and Angel X. Chang, [Sneak Pique: Exploring Autocompletion as a Data Discovery Scaffold for Supporting Visual Analysis](#), In *Proceedings of ACM User Interface Software and Technology Symposium (UIST)*, pp 966–978, 2020.

[C17] **Tahmid Rahman**, Enamul Hoque and Jimmy Huang, [Query Focused Abstractive Summarization via Incorporating Query Relevance and Transfer Learning with Transformer Models](#), In *Proceedings of the Canadian AI*, pp. 342-348, 2020 (Short paper).

[C16] **Dae Hyun Kim**, Enamul Hoque and Maneesh Agrawala, [Answering Questions about Charts and Generating Visual Explanations](#), In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, pp. 1-13, 2020.

[C15] Mahmood Jasim, Enamul Hoque, Ali Sarvghad, Narges Mahyar, [Towards Understanding Desiderata for Large-Scale Civic Input Analysis](#), In *Proceedings of The ACM Conference on Human Factors in Computing Systems (CHI)*, (late-breaking work), pp. 1-8, 2020.

[C14] Tahmid Rahman, Jimmy Huang, and Enamul Hoque, [Contextualized Embeddings based Transformer Encoder for Sentence Similarity Modeling in Answer Selection Task](#), In *Proceedings of the 12th International Conference on Language Resources and Evaluation (LREC)*, pp. 5505-5514, 2020.

[C13] **Nadia Siddiqui** and Enamul Hoque, [ConVisQA: A natural language interface for visually exploring online conversations](#), In *Proceedings of the 24th International Conference Information Visualisation (IV)*, pp. 440-447, 2020.

- [C12] **Tahmid Rahman**, Enamul Hoque and Jimmy Huang, Utilizing Bidirectional Encoder Representations from Transformers for Answer Selection Task, In *Proceedings of the International Conference on Applied Mathematics, Modeling and Computational Science (AMMCS)*, 2019.
- [C11] Enamul Hoque and **Esha Abid**, [Visual exploration of topic controversy in online conversations](#), In *Proceedings of HCI International (late-breaking work)*, pp 369-373, 2019.
- [C10] Dae Hyun Kim, Enamul Hoque, Juho Kim, Maneesh Agrawala, [Facilitating Document Reading by Linking Text and Tables](#), In *Proceedings of ACM User Interface Software and Technology Symposium (UIST)*, pp. 423-434, 2018.
- [C9] **Enamul Hoque** Shafiq Joty, Lluís Màrquez, and Giuseppe Carenini, [CQAVis: Visual text analytics for community question answering](#), In *Proceedings of ACM Intelligent User Interfaces (IUI)*, pp. 161-172, 2017.
- [C8] Shafiq Joty and **Enamul Hoque**, [Speech act modeling of written asynchronous conversations with task-specific embeddings and conditional structured models](#), In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL)*, pp. 1746–1756, 2016.
- [C7] **Enamul Hoque** and Giuseppe Carenini, [MultiConVis: A visual text analytics system for exploring a collection of online conversations](#), In *Proceedings of ACM Intelligent User Interfaces (IUI)*, pp. 96-107, 2016.
- [C6] **Enamul Hoque**, Shafiq Joty, Lluís Màrquez, Alberto Barrón-Cedeño, Giovanni Martino, Alessandro Moschitti, Preslav Nakov, Salvatore Romeo, and Giuseppe Carenini, [An interactive system for exploring community question answering forums](#), In *Proceedings of the International Conference on Computational Linguistics (COLING)*, 2016.
- [C5] **Enamul Hoque** and Giuseppe Carenini, [ConVisIT: Interactive topic modeling for exploring asynchronous online conversations](#), In *Proceedings of ACM Intelligent User Interfaces (IUI)*, pp. 169-180 2015.
- [C4] Giuseppe Carenini, Cristina Conati, **Enamul Hoque**, Ben Steichen, Dereck Toker, James Enns³, [Highlighting interventions and user differences: informing adaptive information visualization support](#), In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, pp. 1835-1844, 2014.
- [C3] **Enamul Hoque**, Grant Strong, Orland Hoeber Minglun Gong, [Conceptual query expansion and visual search results exploration for Web image retrieval](#), In *Proceedings of the Atlantic Web Intelligence Conference (AWIC)*, pp. 73-82, 2011.

³ Author order is alphabetical except for last author

[C2] Grant Strong, **Enamul Hoque**, Minglun Gong, and Orland Hoeber, [Organizing and browsing image search results based on conceptual and visual similarities](#), In *Proceedings of the International Symposium on Visual Computing*, pp. 481-490, 2010.

[C1] **Enamul Hoque**, Gahangir Hossain, Ali Akbar Dewan, Pijush Debnath, [An audible Bangla text entry method in mobile phones with intelligent keypad design](#), In *Proceedings of the International Conference on Computer and Information Technology (ICCIT)*, pp.279-284, 2009.

Panel Discussion

[B1] Participants: Naomi Robbins Richard Brath, Vidya Setlur, Enamul Hoque Prince, Topic: Bridging the Gap: Integrating Text with Data Visualization for More Effective Data Communication, Joint Statistical Meetings, Portland, Oregon, USA, 2024.

Book Chapters

[B2] Debanga Raj Neog, Gautam Singha, Soumyabrata Dev, Enamul Hoque, [Artificial intelligence and its application in disaster risk reduction in the agriculture sector](#), In: Mitra, S., Shaw, R. (eds) *Disaster Risk Reduction and Rural Resiliencem* Springer Nature , pp. 171-187, 2016.

[B1] Gabriel Murray, **Enamul Hoque** and Giuseppe Carenini, [Opinion summarization and visualization](#), in *Sentiment Analysis in Social Networks*, Eds. Pozzi, Fersini, Messina, Liu. Elsevier, pp. 171-187, 2016.

Workshop Papers

[W8] **Ahmed Masry**, Enamul Hoque, [ColFlor: Towards BERT-Size Vision-Language Document Retrieval Models](#), 35th IEEE International Workshop on Machine Learning for Signal Processing (**IEEE MLSP 2025**), 2025

[W7] Anamaria Crisan and Enamul Hoque, [Towards a Holistic Evaluation of LLM Generated Code for Exploratory Visual Analysis](#), *Workshop on Human-centered Evaluation and Auditing of Language Models (HEAL@CHI '24)*, in conjunction with the **ACM CHI**, 2024.

[W6] **Ahmed Masry** and Enamul Hoque, [Integrating image data extraction and table parsing methods for chart question answering \(Chart Question Answering Workshop\)](#), in conjunction with the **CVPR [🏆 Best Paper Award]**, 2021.

[W5] **Enamul Hoque**, Giuseppe Carenini, [Multimedia summary generation from online conversations: Current approaches and future directions \(EMNLP Workshop on New Frontiers in Summarization\)](#), in conjunction with the **EMNLP 2017**, Copenhagen, Denmark, 2017.

[W4] **Enamul Hoque**, Giuseppe Carenini and Shafiq Joty, [Interactive exploration of asynchronous conversations: Applying a user-centered approach to design a visual text analytic system](#). In *Proceedings of the Workshop on Interactive Language Learning, Visualization, and Interfaces (ILLVI 2014)*, in conjunction with the **ACL-2014**, Baltimore, USA.

[W3] Giuseppe Carenini, Cristina Conati, **Enamul Hoque**, Ben Steichen, User [Task adaptation in multimedia presentations](#). *Proceedings of the Workshop on User-Adaptive Information Visualization (WUAV 2013)*, in conjunction with the 21st conference on User Modeling, Adaptation and Personalization (**UMAP 2013**), Rome, Italy, June 2013.

[W2] Cristina Conati, **Enamul Hoque**, Dereck Toker, Ben Steichen, [When to adapt: Detecting user's confusion during visualization processing](#), *Proceedings of the Workshop on User-Adaptive Information Visualization (WUAV 2013)*, in conjunction with the 21st conference on User Modeling, Adaptation and Personalization (**UMAP 2013**), Rome, Italy, June 2013.

[W1] **Enamul Hoque**, Orland Hoeber, Minglun Gong, [Evaluating the trade-offs between diversity and precision for Web image search using concept-based query expansion](#), *Proceedings of the Workshop on Intelligent Web Interaction*, in conjunction with the IEEE/WIC/ACM International Conference on Web Intelligence, pp. 130-133, Lyon, France, 2011.

Posters

[CP2] Imran Chowdhury, Abdul Moeid, Enamul Hoque, Muhammad Ashad Kabir, Md. Sabir Hossain, and Mohammad Mainul Islam, [MIVA: Multimodal interactions for facilitating visual analysis with multiple coordinated views](#), In *Proceedings of the 24th International Conference Information Visualisation (IV)*, Virtual (2020).

[CP01] **Enamul Hoque**, Orland Hoeber, Minglun Gong, [Concept-based interactive visualization approach to Web image search](#), In *Conference Compendium of the IEEE Information Visualization*, Providence, RI, USA, 2011.

Student Consortiums

[S2] **Enamul Hoque**, [Visual text analytics for online conversations: Design, evaluation, and applications](#), In *Companion Publication of the International Conference on Intelligent User Interfaces (IUI)*, pp. 122-125, 2016.

[S1] **Enamul Hoque**, [Visual text analytics for asynchronous online conversations](#), In *Companion Publication of the International Conference on Intelligent User Interfaces (IUI)*, pp. 105-108, 2015.

Patents

[P6] Vidya Setlur, Dae Hyun Kim, Enamul Hoque, Angel Chang, [Using natural language processing for visual analysis of a data set](#), US patent (US 11,244,006), Status: granted, 2022.

[P5] Vidya Setlur, Dae Hyun Kim, Enamul Hoque, Angel Chang, [Utilizing Autocompletion as a Data Discovery Scaffold for Supporting Visual Analysis](#), US patent (US 2021/0349950), Status: granted, 2021.

[P4] Vidya Setlur, Sarah Battersby, Melanie Tory, Richard Gossweiler, Angel Chang, Isaac Dykeman, Enamul Hoque, [Updating displayed data visualizations according to identified](#)

[conversation centers in natural language commands](#), US patent (US 11,030,207), Status: granted, 2021.

[P3] Vidya R Setlur, Sarah E Battersby, Melanie K Tory, Richard C Gossweiler III, Angel Xuan Chang, Isaac J Dykeman, Enamul Hoque, [Data visualization user interface using cohesion of sequential natural language commands](#), US patent (US 11,010,396), Status: granted, 2021.

[P2] Vidya Setlur, Sarah Battersby, Melanie Tory, Richard Gossweiler, Angel Chang, Isaac Dykeman, Enamul Hoque. [Applying natural language pragmatics in a data visualization user interface](#), US patent (US 2021/0303558), Status: granted, 2021.

[P1] Vidya, Setlur, Melanie Tory, Angel Chang, Sarah Battersby, Richard Gossweiler, Enamul Hoque, Isaac Dykeman. [Systems and methods of using natural language processing for visual analysis of a data set](#), US patent (US 10,515,121), Status: granted, 2019.

(C) NON-REFEREED PUBLICATIONS

[N3] Mizanur Rahman, Amran Bhuiyan, Mohammed Saidul Islam, Md Tahmid Rahman Laskar, Ridwan Mahbub, Ahmed Masry, Shafiq Joty, Enamul Hoque [LLM-based data science agents: A survey of capabilities, challenges, and future directions](#), arXiv preprint arXiv:2510.04023, 2025.

[N2] Shadikur Rahman, Umme Ayman Koana, Enamul Hoque, [RefineCode: Enhancing Code Quality Through Actionable Code Review Recommendations and Intelligent Issue Resolution](#), Technical report, 2024.

[N1] Xuan Long Do, Mohammad Hassanpour, Ahmed Masry, Parsa Kavehzadeh, Enamul Hoque, Shafiq Joty, [Do LLMs work on charts? designing few-shot prompts for chart question answering and summarization](#), arXiv preprint arXiv:2312.10610, 2023.

(D) LIST OF INVITED TALKS

1. Multi-Agent Vision-Language Models for Data Visualization and Analytics, *Third International Conference on Big Data, IoT and Machine Learning*, Bangladesh, September 2025.
2. Democratizing Data Visualization and Analytics with Vision-Language Models, *Chittagong University of Engineering and Technology (CUET)*, Bangladesh, July 2025.
3. Democratizing Data Visualization and Analytics with Vision-Language Models, *Center for Computational & Data Sciences, Independent University of Bangladesh (IUB)*, Bangladesh, July 2025.
4. Presented a talk on Democratizing Data Visualization and Analytics with Vision-Language Model. *American International University – Bangladesh (AIUB)*, Bangladesh, July 2025.
5. Democratizing Data Visualization and Analytics with Vision-Language Models. *North South University (NSU)*, July 2025.
6. Multimodal Language Models for Data Visualization, *Saudi Data and AI Authority, Riyadh, Saudi Arabia*, Dec 2024.

7. Addressing Ethical Challenges in LLM-Driven Chart Reasoning, *University of Toronto, Canada*, October 2024.
8. Towards inclusive and accessible data visualizations and analytics, *Guelph University, Canada*, Feb 2024.
9. Towards inclusive and accessible data visualizations and analytics, *International Conference on Computer and Information Technology (ICCIT)*, Bangladesh, Dec 2023.
10. Integrating Natural Language with Information Visualizations, *BRAC University Bangladesh*, Nov 2023.
11. Integrating Natural Language with Information Visualizations, *EECS, York University, Canada*, July 2023.
12. Integrating Natural Language with Information Visualizations, *International Islamic University, Bangladesh*, July 2023.
13. Integrating Natural Language with Information Visualizations, *IEEE ECCE, Bangladesh*, February 2023.
14. Natural Language Interactions with Data Visualizations, *Feni University, Bangladesh*, July 2022
15. Natural Language Interactions with Data Visualizations, *International Conference on Big Data, IoT and Machine Learning (online)*, September 2021.
16. Visual Text Analytics for Exploring and Understanding Social Media Texts, *International Workshop on Computational Analysis of Undesired Texts on Social Media, Bangladesh*, June 2021.
17. Natural Language Interactions with Visual Analytics, *Workshop on Big Data and Machine Learning (online)*, Chittagong, Bangladesh, Dec 2020.
18. Natural Language Interactions with Visual Analytics, *Department of Computer Science, Lakehead University, Canada (online)*, September 2020.
19. Natural Language Interactions with Visual Analytics, *IEEE Student Branch Webinar Hub, Chittagong University of Engineering & Technology, Bangladesh (online)*, August 2020.
20. Visual text analytics for exploring and understanding large datasets, *Department of EECS, York University, Canada*, January 2019.
21. Visual text analytics for exploring and understanding large datasets, *Department of Computer Science, University of Ontario Institute of Technology, Canada*, January 2019.
22. Visual text analytics for exploring and understanding large datasets, *FX Palo Alto Laboratory, CA, USA*, July 2018.
23. Visual text analytics for exploring and understanding large datasets, *Department of Computer Science, University of Victoria, Canada*, February 2018.

24. Visual text analytics for exploring and understanding large datasets, *School of Information Technology, York University, Canada*, February 2018.
25. Visual text analytics for exploring and understanding large datasets, Department of Informatics, *New Jersey Institute of Technology, USA*, February 2018.
26. Visual text analytics for exploring and understanding large datasets, School of Computing and Informatics (CMIX), *University of Louisiana at Lafayette, USA*, January 2018.
27. Visual text analytics for exploring and understanding large datasets, Wee Kim Wee School of Communication and Information, *Nanyang Technological University, Singapore*, January 2018.
28. MultiConVis: A Visual text analytics system for exploring a collection of online conversations, *UBC Laboratory for Computational Intelligence (LCI) Forum Talk*, Vancouver, BC, January 2017.
29. Visual text analytics for online conversations, *Department of Linguistics, Simon Fraser University, Burnaby, BC*, January 2017.
30. An overview of text visualization techniques, *UBC School of Library, Archival and Information Studies (iSchool)*, Vancouver, BC, December 2016.
31. ConVis: A visual text analytic system for exploring asynchronous online conversations, *The Pacific Northwest Regional NLP Workshop (NW-NLP)*, Microsoft Research, Redmond, April 2014.
32. A visual text analytic system for asynchronous conversations, *UBC Laboratory for Computational Intelligence (LCI) Forum Talk*, Vancouver, BC, November 2013.
33. Conceptual query expansion and visual search results exploration for Web image retrieval, *Department of Computer Science, Memorial University of Newfoundland, St. John's, NL*, November 2010.

STUDENT SUPERVISION AND MENTORSHIP

(A) SUMMARY OF SUPERVISION (JULY 2018 – PRESENT)

DEGREE	SUPERVISING	SUPERVISED	TOTAL
Postdoctoral fellow	0	1	1
PhD students	3	0	3
MSc in Computer Science	2	9	11
MA in Information System and Technology	2	5	7
Undergraduate	0	12	12
Others (Research projects through ITEC 6002 and EECS 6002)	0	5	5
#Total	7	32	39

(B) POSTDOC AND GRADUATE STUDENTS SUPERVISED

2025-	Mizanur Rahman, PhD Student, EECS, York University, <i>NSERC Canada CGS scholarship</i>
2024-2024	Somang Nam, Postdoctoral fellow, York University, Next: Assistant Professor, Alagoma University, Canada
2024-	Ahmed Gamal Masry, PhD Student, EECS, York University, <i>NSERC Canada CGS scholarship</i>
2024-	Tahmid Rahman, PhD Student, EECS, York University
2024-	Ridwan Mahbub, master's student, EECS, York University
2024-	Mahir Ahmed, Master's student, MAIST, York University
2023- 2026	Nafis Tahmid Choudhuri, master's student, EECS, York University
2023- 2025	Mohammed Saidul Islam, EECS, York University, Next: Applied Machine Learning Specialist, Vector Institute
2023-2024	Shadikur Rahman, EECS, York University, Next: Research Associate, Alagoma University and Contract Faculty Member, York University
2023-2025	Aaryaman Kartha, EECS, York University
2023-2026	Puja Das, MAIST, York University
2022- 2023	Mohammad Hassanpour, master's student, EECS, York University, Next: Applied ML Scientist, Cerebras Systems
2022- 2024	Syed Muhammad Ali, MAIST, York University, Next: IT specialist, Tresure Hill
2022- 2024	Mehrad Shahmohammadi, MAIST, York University
2021 – 2022	Md. Zubair Ibne Alam, master's student, EECS, York University, Next: Software Engineer: Veeva Systems
2021-2023	Kaavya Varadarajan, master's student, MAIST, York University, Next: IT analyst, Canada Revenue agency
2021 – 2023	Parsa Kaveh, master's student, EECS, York University, Next: AI researcher: Huawei Tehnologies Canada, Next: Applied Scientist: Dialpad.
2020-2022	Shankar Kantharaj, master's student, EECS, York University, Next: Data Scientist: Johnson and Johnson
2020- 2022	Ahmed Gamal Masry, master's student, EECS, York University, Next: Data Scientist, Arteria AI
2019-2022	Zehra Shirin, master's student, MAIST, York University, Next: Lecturer, York University

- 2018-2020 Md Tahmid Rahman, master's student (co-supervised with Dr. Jimmy Huang), EECS, York University, Next: NLP Applied Scientist, Dialpad Inc.
- 2018-2021 Nadia Ashfaq Siddiqui, master's student, MAIST, York University
- 2017-2018 Dae Hyun, PhD student, Stanford University, Currently Assistant Professor - Yonsei University, South Korea

(C) UNDERGRADUATE STUDENTS SUPERVISED

- 2025 Reja Hussain, Independent Research Project, York University
- 2025 Thinh Lang, Independent Research Project, York University
- 2022 Shehnaz Islam, Dean's Award for Research Excellence (**DARE**) Project, LAPS, York University
- 2021 Taha Masood, Undergraduate research assistant, Waterloo University
- 2020 Sadiq H. Dharsi, Independent Research Project, York University
- 2020 Dhruv Nayyar, Independent Research Project, York University
- 2020 Ofosu Alfred, Independent Research Project, York University
- 2019- Jason Obeid, Independent Research Project (2019), then NSERC **USRA** Award Project
2020 (2020), York University
- 2020 Rupali Kalia, Independent Research Project, York University
- 2019 Yumin Sun, Dean's Award for Research Excellence (**DARE**) Project, LAPS, York University
- 2019 Esha Abid, Independent Research Project, York University
- 2019 Prina Wong, Independent Research Project, York University
- 2013 Rastko Djerić, Undergraduate student, UBC
- 2009 Kaya Gajos, Undergraduate student, UBC
- 2009 Kazi Shahadat Hossain, Undergraduate student, CUET
- 2009 Sumon Deb, Undergraduate student, CUET
- 2008 Priyanka Guha, Undergraduate student, CUET
- 2008 Pijush Debnath, Undergraduate student, CUET

(D) GRADUATE SUPERVISORY COMMITTEES

- 2025- Nafid Enan (MSc in CS)
- 2024- Mostafijur Akhond(PhD in CS)
- 2022-2023 Nabil Safwat (MA in IST)

2022- Sepideh Hajhosseinkhani (MSc in CS)
 2021-2022 Khalid Ali (MA in IST)
 2020-2021 Naeemeh Yadollahpour (MA in IST)
 2019- Alireza Naeiji (MSc in CS)
 2019 Mehedi Hasan (MSc in CS)
 2019-2022 Sarah Akhavan Kazemzadeh (MSc in CS)
 2019- Mehrnaz Zhian (PhD in CS)
 2019 Niloy Eric Costa (MSc in CS)
 2019 Wisal Tambosi (MA in IST)

(E) UNIVERSITY THESIS EXAMINATION

Aug 2025 Shogo Toyonaga, MSc thesis, CS (Internal member)
 Apr 2025 Nicholas Dehnen MSc thesis, CS (Internal member)
 Jan 2025 Nima Shiri Harzevili, PhD Dissertaation, CS (Internal member)
 Aug 2022 Elias Bestard Lorigados, MSc thesis, EECS (Internal examiner)
 July 2022 Sarah Akhavan Kazemzadeh, MSc thesis, EECS (Internal member)
 May 2021 Saurabh Garg, MSc thesis, EECS (Internal member)
 May 2021 Narges Haghighati Boroujeni, MSc thesis, EECS (Internal member)
 Feb 2021 Sadia Chowdhury MSc thesis, EECS (Internal examiner)
 Oct 2020 Boyuan Chen, PhD thesis, EECS (Internal examiner)
 Nov 2020 Fahmida Pervin, MASc thesis, EECS (Internal examiner)

SERVICE TO THE UNIVERSITY

July 2022- June 2025 Director, School of Information Technology, York University
 July 2022- June 2025 Member, Senate, York University
 July 2023- Member, Faculty Hiring Committee (FinTech, Financial Cryptography and Software Engineering), School of Information Technology
 2021- 2023 Chair, Committee of Teaching & Research, School of Information Technology
 2022- 2023 Member, Student Academic Petitions and Appeals Committee, Faculty of Liberal Arts & Professional Studies (LA&PS)

- 2022- Member of Working Group for a new PhD program, School of Information Technology
- 2020-2021 Member, CRC Hiring Committee, School of Information Technology
- 2020-2021 Dean's Rep., Faculty Hiring Committee, School of Administrative Studies
- 2018- Member, Committee of Teaching & Research, School of Information Technology
- 2020- Member, Curriculum Committee, School of Information Technology
- 2018- Research Coordinator, School of Information Technology
- 2019- Member, Executive Committee, MAIST Graduate Program
- 2019-2020 Member, Faculty Hiring Committee (Information Security Management), School of Information Technology
- 2019-2020 Member, Faculty Hiring Committee (Information Systems), School of Information Technology

SERVICE TO THE COMMUNITY

ORGANIZER

- Program chair, [Second Workshop on Bangla Language Processing](#), co-located with AACL 2025

SESSION CHAIR

- EACL 2026, ACL 2026

PROGRAM COMMITTEE

- Area chair (Action editor) for [ACL rolling review](#) (2021-)
- IUI: ACM Intelligent User Interfaces (2015-2021)
- ACL: Annual Meeting of the Association for Computational Linguistics (2019-2021)
- IEEE Visualization: Short papers (2018-)
- NAACL-HLT: Conference of the North American Chapter of the Association for Computational Linguistics (2018-2019, 2021)
- Graphics Interface (2021-2022, 2026)

REVIEWER (JOURNALS)

- TVCG: IEEE Transactions on Visualization and Computer Graphics (2019-)
- CGF: Computer Graphics Forum (2021)
- NLE: Natural Language Engineering, Cambridge University Press (2021-2022)

- Computer Speech & Language, Elsevier, 2021
- ACM Trans Asian and Low-Resource Language Information Processing (2020)
- CGA: IEEE Computer Graphics and Applications (2020, 2025)
- International Journal of Human-Computer Studies (2018)
- ACM TIIS: ACM Transactions on Interactive Intelligent Systems (2017-2018)
- Journal of Computational Intelligence (2017)
- Journal of Informatics (2017)
- Journal of Computer Graphics Forum (EuroVis) (2016)

REVIEWER (CONFERENCES)

- IEEE Visualization (2017-2025)
- CHI: ACM Conference on Human Factors in Computing Systems (2018-2023)
- UIST: ACM User Interface Software and Technology Symposium (2018, 2021, 2022)
- EMNLP: Empirical Methods in Natural Language Processing (2019-2020)
- IJCAI-ECAI: International Joint Conferences on Artificial Intelligence (2018)
- NUSE: Workshop on Narrative Understanding, Storylines, and Events (2020)
- DIS: Designing Interactive Systems (2019)
- EMNLP Workshop on New Frontiers in Summarization (2019)
- HAAPIE: Workshop on Human Aspects in Adaptive and Personalized Interactive Environments (2017-2018)
- IIKE: Intelligence & Interaction in Knowledge Engineering (2018-2019)
- Workshop on Designing Technologies to Support Human Problem Solving (2018)
- Workshop on Human and Technology (2014)

REVIEWER (GRANTS)

- Canada Foundation for Innovation (CFI) (2022-2024)
- Mitacs funding proposal (2018-2022)
- York University Internal SPORT committee reviewer for Ontario Research Funds - Research Infrastructure (2023)

CONFERENCE VOLUNTEERS

- IUI 2016, ACL 2014, Canadian AI/GI/CRV 2011

AFFILIATIONS

MEMBERSHIP

- ACM, IEEE (Senior Member), ACL, EuroGraphics

REFERENCES

Available upon request.