

AHMED MASRY

914-90 Atkinson Rd, Toronto, Ontario, Canada

(+1)-647-858-3442 ◊ masry20@yorku.ca ◊ [LinkedIn](#) ◊ [Google Scholar](#) ◊ [Personal Website](#)

RESEARCH HIGHLIGHTS

- **Papers:** ACL (22, 24, 25), EuroVis (22), EMNLP (23, 24), COLING (25), ICLR (25), COLM (25), NeurIPS (25)
- **Workshop Papers:** CVPR 21 [Best Paper Award], AAAI (24), and ICLR (25).
- **Research Impact:** 2000+ citations, h-index of 13 on [Google Scholar](#).
- **Awards:** NSERC CGS-D (\$120K CAD) & Google PaliGemma Academic Grant (\$5K USD).
- **Benchmark Contribution:** Creator of [ChartQA](#) Benchmark, cited by GPT-4 & Gemini; 1100+ citations.
- **Modeling Contributions:** Multimodal chart and document models with **300K+ downloads** on [HuggingFace](#)
- **Research Interests:** Vision-Language Models, Document & Chart Comprehension, Large Language Models.
- **Media Coverage:** [ChartGemma](#) featured in MarketTechPost and [ChartInstruct](#) in LG AI Research Blogs.

SELECTED PAPERS

- “AlignVLM: Bridging Vision and Language Latent Spaces for Multimodal Understanding” (**NeurIPS 2025**)
A. Masry, J. A. Rodriguez, T. Zhang, S. Wang, C. Wang, A. Feizi, A. K. Suresh, A. Puri, et al.
- “BigCharts-R1: Enhanced Chart Reasoning with Visual Reinforcement Finetuning” (**COLM 2025**)
A. Masry, A. Puri, M. Hashemi, J. A. Rodriguez, M. Thakkar, et al.
- “ChartQAPro: A More Diverse and Challenging Benchmark for Chart Question Answering” (**ACL 2025**)
A. Masry, M. S. Islam, M. Ahmed, A. Bajaj, F. Kabir, A. Kartha, et al.
- “ChartGemma: Visual Instruction-tuning for Chart Reasoning in the Wild” (**COLING Industry 2025**)
A. Masry*, M. Thakkar*, A. Bajaj, A. Kartha, E. Hoque, S. Joty.
- “Are Large Vision Language Models up to the Challenge of Chart Comprehension and Reasoning? An Extensive Investigation into the Capabilities and Limitations of LVLMs” (**EMNLP 2024**)
M. S. Islam, R. Rahman, **A. Masry**, Md T. R. Laskar, M. T. Nayem, E. Hoque.
- “ChartInstruct: Instruction Tuning for Chart Comprehension and Reasoning” (**ACL 2024**)
A. Masry*, M. Shahmohammadi*, M. R. Parvez, E. Hoque, S. Joty.
- “UniChart: A Universal Vision-language Pretrained Model for Chart Comprehension and Reasoning” (**EMNLP 2023**)
A. Masry*, P. Kavehzadeh*, X. L. Do, S. Joty, E. Hoque.
- “ChartQA: A Benchmark for Question Answering about Charts with Visual and Logical Reasoning” (**ACL 2022**)
A. Masry, D. Long, J. Q. Tan, S. Joty, E. Hoque.
- “Chart-to-Text: A Large-Scale Benchmark for Chart Summarization” (**ACL 2022**)
S. Kantharaj*, R. T. Ko Leong*, X. Lin*, **A. Masry***, M. Thakkar*, E. Hoque, S. Joty.
- “Chart Question Answering: State of the Art and Future Directions” (**EuroVis 2022**)
E. Hoque, P. Kavehzadeh, **A. Masry**.
- “Integrating Image Data Extraction and Table Parsing Methods for Chart Question Answering”
A. Masry, E. H. Prince. Chart Question Answering Workshop, **CVPR 2021** [Best Workshop Paper Award]

EDUCATION

York University, Ontario <i>Ph.D., Electrical Engineering & Computer Science</i>	September 2024 - Present <i>GPA: Exceptional, A+</i>
York University, Ontario <i>Master of Science, Computer Science</i>	September 2020 - June 2022 <i>GPA: Exceptional, A+</i>
Koç University, Turkey (Ranked 1st in Turkey) <i>Bachelor of Science, Computer Engineering</i>	September 2017 - June 2020 <i>GPA: 3.9/4.0</i>

WORK EXPERIENCE

Mila - Quebec Artificial Intelligence Institute. <i>Visiting Researcher, Advisor: Dr. Aaron Courville</i>	Sept 2025 - Dec 2025 <i>Montreal, Quebec</i>
• Improving the long video understanding capabilities in vision-language models (VLMs). • Experiment with world and latent action models to represent long videos more efficiently in VLMs by reducing token count.	
ServiceNow Research <i>Visiting Researcher, Multimodal Document AI. Advisor: Sai Rajeswar</i>	Sept 2024 - July 2025 <i>Montreal, Quebec</i>
• Assisting in building multimodal document understanding datasets and benchmarks (ICLR 2025). • Built SFT datasets and a novel RL reward to enhance mathematical visual reasoning in VLMs (COLM 2025). • Designed VLM architectures to improve the alignment between vision encoders and LLMs for documents (PDFs, charts, tables) (NeurIPS 2025). • Improved multimodal document retrieval in ColPali by +3% NDCG@5 using a novel similarity function and pretraining objectives (EMNLP Industry Track 2025).	

Intelligent Visualization Lab, York University
Research Assistant & Associate, MultiModal Chart AI

Sept 2020 - Present
Toronto, Ontario

Advisor: Dr. Enamul Hoque, Collaborator: Dr. Shafiq Joty from Salesforce AI Research

- Conducting research in partial fulfillment of Master's and PhD requirements.
- Developed multimodal chart benchmarks: [ChartQA](#), [Chart2Text](#), and [ChartQAPro](#)
- Trained [UniChart](#), [ChartInstruct](#), and [ChartGemma](#), state-of-the-art universal chart comprehension models using novel self-supervised pretraining objectives and Visual Instruction Tuning.

Arteria AI

May 2022 - Sept 2024
Toronto, Ontario

Senior Data Scientist (Promoted in January 2024)

- Developed a multimodal NER and relation extraction pipeline to extract financial transactions from interbank notices, winning a competition among 19 startups and securing a contract with a major Canadian bank.
- Interpreted client requirements, designed solutions, and led junior data scientists in implementation.

AWARDS

NSERC CGS-D

May 2025

Toronto, Ontario

A prestigious national award to support outstanding PhD students (\$120K CAD).

Ontario Graduate Scholarship (OGS) [Declined in favor of NSERC CGS-D]
A prestigious provincial award to support outstanding PhD students (\$45K CAD).

May 2025

Toronto, Ontario

Mitacs Accelerate Award

January 2025

Montreal, Quebec

15K CAD to support my research internship at ServiceNow Research.

Google PaliGemma Academic Award

August 2024

Virtual

GCP Credits Award of 5K USD to support my research with the PaliGemma model.

Al Ghurair Foundation for Education STEM scholarship Program (AGFE) September 2017 - June 2020
A merit-based award for highly achieving Arab students to pursue a fully funded STEM degree. Istanbul, Turkey

Vehbi Koc Scholar And Dean's Honor Roll

May 2018 - June 2020

Istanbul, Turkey

Merit-based awards for Academic Excellence.

CVPR 2021 Chart Question Answering Workshop

June 2021

Virtual

ACTIVITIES

Arabic NLP Winter School

January 2025

Abu Dhabi, UAE

Participant at MBZUAI campus.

Multimodal AI Winter School

December 2024

Riyadh, Saudi Arabia

Visiting Researcher to Saudi Data & AI Authority (SDAIA).

Al-Ghurair Foundation (AGFE)

December 2018 - January 2020

Istanbul, Turkey

Student Ambassador. (Lebanon & Turkey hub).

- Selected as one of 33 outstanding students from 700 AGFE scholars worldwide to represent the Foundation and its values.

Robotics Craftsmanship International Academy (University of Coimbra)

June 2018 - August 2018

Coimbra, Portugal

Participant & Contestant

- Ranked 1st in the sumo robots competition, and in the top 10 out from 84 participants.

RESEARCH TALKS

Data Visualization Understanding with VLMs

December 2025

Montreal, Quebec

Invited Speaker at McGill University (McGill NLP Group)

NLP+Vis: Data Visualization Understanding with VLMs

September 2025

Istanbul, Turkey

Invited Speaker at Koc University

Multimodal Chart Understanding with VLMs

March 2025

Alexandria, Egypt

Invited Speaker at Alexandria University