

AHMED MASRY

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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 <i>Research Assistant & Associate, MultiModal Chart AI</i> <i>Advisor: Dr. Enamul Hoque, Collaborator: Dr. Shafiq Joty from Salesforce AI Research</i>	Sept 2020 - Present <i>Toronto, Ontario</i>
<ul style="list-style-type: none"> 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 <i>Senior Data Scientist (Promoted in January 2024)</i>	May 2022 - Sept 2024 <i>Toronto, Ontario</i>
<ul style="list-style-type: none"> 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 <i>A prestigious national award to support outstanding PhD students (\$120K CAD).</i>	May 2025 <i>Toronto, Ontario</i>
Ontario Graduate Scholarship (OGS) [Declined in favor of NSERC CGS-D] <i>A prestigious provincial award to support outstanding PhD students (\$45K CAD).</i>	
Mitacs Accelerate Award <i>15K CAD to support my research internship at ServiceNow Research.</i>	
Google PaliGemma Academic Award <i>GCP Credits Award of 5K USD to support my research with the PaliGemma model.</i>	
Al Ghurair Foundation for Education STEM scholarship Program (AGFE) <i>A merit-based award for highly achieving Arab students to pursue a fully funded STEM degree.</i>	
Vehbi Koc Scholar And Dean's Honor Roll <i>Merit-based awards for Academic Excellence.</i>	
CVPR 2021 Chart Question Answering Workshop <i>Achieved Best Paper Award.</i>	

ACTIVITIES

Arabic NLP Winter School <i>Participant at MBZUAI campus.</i>	January 2025 <i>Abu Dhabi, UAE</i>
Multimodal AI Winter School <i>Visiting Researcher to Saudi Data & AI Authority (SDAIA).</i>	
Al-Ghurair Foundation (AGFE) <i>Student Ambassador. (Lebanon & Turkey hub).</i>	
<ul style="list-style-type: none"> 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) <i>Participant & Contestant</i>	
<ul style="list-style-type: none"> Ranked 1st in the sumo robots competition, and in the top 10 out from 84 participants. 	

RESEARCH TALKS

Data Visualization Understanding with VLMs <i>Invited Speaker at McGill University (McGill NLP Group)</i>	December 2025 <i>Montreal, Quebec</i>
NLP+Vis: Data Visualization Understanding with VLMs <i>Invited Speaker at Koc University</i>	
Multimodal Chart Understanding with VLMs <i>Invited Speaker at Alexandria University</i>	