

Md Mohaiminul Islam

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🌐 [Webpage](#)

🌐 [LinkedIn](#)

🔍 [Google Scholar](#)

🐙 [GitHub](#)

Research Interest

- Computer Vision 📖 Video Understanding, Vision-Language Modeling, Efficient Long-Range Video Models, Video LLMs, Egocentric Vision.
- Machine Learning 📖 Natural Language Processing, Large Language Models, Multi-Modal Learning, Efficient Sequence Modeling, LLM Agents.

Education

- 2021 – Present 📖 **Ph.D. in Computer Science**, 5th Year
The University of North Carolina at Chapel Hill
Advisor: [Gedas Bertasius](#)
- 2021 – 2023 📖 **M.Sc. in Computer Science**
The University of North Carolina at Chapel Hill
Advisor: [Gedas Bertasius](#)
- 2014 – 2018 📖 **B.Sc. in Computer Science and Engineering**, CGPA 3.86/4.00
Bangladesh University of Engineering and Technology
Advisor: [Shamsuzzoha Bayzid](#)

Experience

- May 24 – Aug 24 📖 Research Scientist Intern, *Facebook AI Research*, [Meta AI](#), New York, NY, USA
Advisors: [Lorenzo Torresani](#), [Tushar Nagarajan](#), [Huiyu Wang](#)
Topic: Video Large Language Models, Long-Range Video Question Answering
Publication: [BIMBA \(CVPR 2025\)](#)
- May 23 – Aug 23 📖 Research Scientist Intern, *Facebook AI Research*, [Meta AI](#), Menlo Park, CA, USA
Advisors: [Xitong Yang](#), [Kris Kitani](#)
Topic: Multimodal LLM Agents, Procedural Planning, Test-Time Scaling
Publication: [VidAssist \(ECCV 2024, Oral\)](#)
- May 22 – Aug 22 📖 Machine Learning Research Intern, [Comcast AI](#), Washington DC, USA
Advisors: [Mahmudul Hasan](#), [Tony Braskich](#)
Topic: Scene Segmentation, Efficient Long-Range Video Models
Publication: [Trans4mer \(CVPR 2023\)](#)
- Apr 19 – Dec 20 📖 Lecturer, [University of Asia Pacific](#), Dhaka, Bangladesh
- Nov 18 – Mar 19 📖 Software Engineer, [Samsung Research](#), Dhaka, Bangladesh

Awards and Honors

- 2025 📖 **Doctoral Consortium Award**, CVPR 2025.
- 📖 **Egocentric Vision (EgoVis) 2023/2024 Distinguished Paper Award**, CVPR 2025. [[arxiv](#)]
- 📖 **1st place**, [EgoSchema Challenge](#), [EgoVis Workshop](#), CVPR 2025. [[arxiv](#)]
- 2022 📖 **2nd place**, [Object State Change Classification Challenge](#), [Ego4D Workshop](#), CVPR 2022. [[arxiv](#)]
- 2017 📖 **Champion Student Poster Award**, NSysS 2017.
- 2016-18 📖 **Deans List Award**, Bangladesh University of Engineering and Technology.

Peer-Reviewed Publications




- 10 BIMBA: Selective-Scan Compression for Long-Range Video Question Answering
M. Islam, T. Nagarajan, H. Wang, G. Bertasius, L. Torresani
In *Computer Vision and Pattern Recognition (CVPR)* 2025. [[arxiv](#)]
- 9 ReVisionLLM: Recursive Vision-Language Model for Temporal Grounding in Hour-Long Videos
T. Hannan, **M. Islam**, J. Gu, T. Seidl, G. Bertasius
In *Computer Vision and Pattern Recognition (CVPR)* 2025. [[arxiv](#)]
- 8 Video ReCap: Recursive Captioning of Hour-Long Videos
M. Islam, N. Ho, X. Yang, T. Nagarajan, L. Torresani, G. Bertasius
In *Computer Vision and Pattern Recognition (CVPR)* 2024. [[arxiv](#)]
- 7 Ego-Exo4D: Understanding Skilled Human Activity from First- and Third-Person Perspectives
K. Grauman, **M. Islam**, et al.
In *Computer Vision and Pattern Recognition (CVPR)* 2024. [[arxiv](#)]
- 6 Propose, Assess, Search: Harnessing LLMs for Goal-Oriented Planning in Instructional Videos
M. Islam, T. Nagarajan, H. Wang, F. Chu, K. Kitani, G. Bertasius, X. Yang
In *European Conference on Computer Vision (ECCV)* 2024. (Oral) [[arxiv](#)]
- 5 RGNet: A Unified Clip Retrieval and Grounding Network for Long Videos
T. Hannan, **M. Islam**, T. Seidl, G. Bertasius
In *European Conference on Computer Vision (ECCV)* 2024. [[arxiv](#)]
- 4 A Simple LLM Framework for Long-Range Video Question-Answering
C. Zhang, T. Lu, **M. Islam**, Z. Wang, S. Yu, M. Bansal, G. Bertasius
In *Empirical Methods in Natural Language Processing (EMNLP)* 2024. [[arxiv](#)]
- 3 Efficient Movie Scene Detection using State-Space Transformers
M. Islam, M. Hasan, K. Athrey, T. Braskich, G. Bertasius
In *Computer Vision and Pattern Recognition (CVPR)* 2023. [[arxiv](#)]
- 2 Long Movie Clip Classification with State-Space Video Models
M. Islam, G. Bertasius
In *European Conference on Computer Vision (ECCV)* 2022. [[arxiv](#)]
- 1 COVID-DenseNet: A Deep Learning Architecture to Detect COVID-19 from Chest Radiology Images
M. Islam, T. Hannan, L. Sarker, Z. Ahmed
In *International Conference on Data Science and Applications (ICDSA)* 2022. [[arxiv](#)]

Skills





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|----------|---|
| Coding | Python, Java, C, C++, Matlab, HTML, CSS, JavaScript, Android. |
| ML tools | PyTorch, Keras, TensorFlow, Jupyter, Distributed training. |
| Database | Oracle, MySQL, PostgreSQL, SQLite. |
| Web Dev | Html, CSS, JavaScript, XML, Android. |
| Hardware | AVR Micro-controller, Arduino. |
| Misc. | Shell Script, LaTeX, Git, Dockers, Arduino. |

Miscellaneous Experiences

Invited Talks

- 02/2025  Long-Range Video Question-Answering and Video-Language Reasoning [[Video](#)]
Multimodal Webinar, **TwelveLabs**.
- 12/2024  Ego4D Winter Symposium, **Meta**. [[Video](#)]
- 03/2024  Research Summit for Egocentric Perception with Project Aria, **Meta**, Redmond, WA. [[Video](#)]

Organizer and Reviewer

- 2024  **Organizer**, *T4V: Transformers for Vision* Workshop, **CVPR** 2024.
 **Organizer**, *T4V: Transformers for Vision* Workshop, **CVPR** 2023.
 **Organizer**, *Workshop on Video-Language Models* Workshop, **NeurIPS** 2024.
- 2022-23  **Reviewer**, CVPR, ECCV, NeurIPS, ACL, ACMMM.

Leadership

- 2014-18  **Class Captain** Bangladesh University of Engineering and Technology.