

Khalid Saifullah

khalidsaifullaah.github.io

khalids@cs.umd.edu

EDUCATION

University of Maryland, College Park

Ph.D. in Computer Science

Research Advisor: Tom Goldstein

Maryland, USA

August 2022 - Present

United International University

B.Sc. in Computer Science and Engineering

CGPA: 3.81/4.00

Dhaka, Bangladesh

May 2017 - December 2021

INDUSTRY EXPERIENCE

Microsoft AI

Applied Research Scientist Intern

Research Advisor: Wenhao Lu

Washington, USA

June 2026 - Present

Adobe Research

Research Scientist Intern

Research Advisor: Curtis Wigington, Rajiv Jain

Maryland, USA

May 2025 - August 2025

Adobe Research

Research Scientist Intern

Research Advisor: Joe Barrow, Ani Nenkova

Maryland, USA

May 2023 - December 2023

SELECTED PUBLICATIONS

- [1] Scalable Pretraining of Retrieval Models
Khalid Saifullah, John Kirchenbauer, Rifaa Qadri, Abhimanyu Hans, Neel Jain, Yuxin Wen, Siddharth Singh, Brian R. Bartoldson, Bhavya Kailkhura, Abhinav Bhatele, Tom Goldstein
International Conference on Learning Representations (ICLR), SCI-FM, 2025.
- [2] Bring Your Own Data! Self-Supervised Evaluation for Large Language Models
Khalid Saifullah*, Neel Jain*, Yuxin Wen, John Kirchenbauer, Manli Shu, Aniruddha Saha, Micah Goldbum, Jonas Geiping, Tom Goldstein
Conference on Language Modeling (COLM), 2024.
- [3] CinePile: A Long Video Question Answering Dataset and Benchmarks
Ruchit Rawal, **Khalid Saifullah**, Ronen Basri, David Jacobs, Gowthami Somepalli, Tom Goldstein
Conference on Computer Vision and Pattern Recognition (CVPR), SynData4CV, 2024. [Best Paper]
- [4] Dynamic Guardian Models: Realtime Content Moderation With User-Defined Policies
Monte Hoover, Vatsal Baherwani, Neel Jain, **Khalid Saifullah**, Joseph James Vincent, Chirag Jain, Melissa Kazemi Rad, C. Bayan Bruss, Ashwinee Panda, Tom Goldstein
International Conference on Machine Learning (ICML), MoFA, 2025.

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- [5] Seeing in Words: Learning to Classify through Language Bottlenecks
Khalid Saifullah, Yuxin Wen, Jonas Geiping, Micah Goldblum, Tom Goldstein
International Conference on Learning Representations (ICLR), Tiny Papers, 2023.
- [6] LiveBench: A Challenging, Contamination-Free LLM Benchmark
Colin White*, Samuel Dooley*, Manley Roberts*, Arka Pal*, Benjamin Feuer, Siddhartha Jain, Ravid Shwartz-Ziv, Neel Jain, **Khalid Saifullah**, Siddhartha Naidu, Chinmay Hegde, Yann LeCun, Tom Goldstein, Willie Neiswanger, Micah Goldblum
International Conference on Learning Representations (ICLR), 2025. [Spotlight Paper]
- [7] On the Reliability of Watermarks for Large Language Models
John Kirchenbauer*, Jonas Geiping*, Yuxin Wen, Manli Shu, **Khalid Saifullah**, Kezhi Kong, Kasun Fernando, Aniruddha Saha, Micah Goldblum, Tom Goldstein
International Conference on Learning Representations (ICLR), 2024.

(Visit my Google scholar [NNEbBIQAAAAJ](#) for complete list)

HIGHLIGHTED PROJECTS

DALL·E mini | Python, JAX, HuggingFace, Text-to-Image Generation

- A JAX/FLAX implementation of OpenAI's DALL·E but is about 30 times smaller.
- Impressive results achieved in a highly resourced constraint setting by simplifying model architecture and memory requirements. [\[Project Report\]](#) [\[Demo\]](#)

GPT-2 Bengali | Python, JAX, HuggingFace, Natural Language Processing

- First implementation of GPT-2 from scratch for Bengali.
- Trained on single TPU v3-8 with the Bengali portion of [mC4](#) dataset. [\[Source Code\]](#)

BERTify | Python, PyTorch, DL Tooling

- A python module that helps with extracting BERT embeddings for large Bengali/English dataset.
- Especially optimized for users with limited computational access (e.g. free colab/kaggle GPUs) to tackle CUDA OOMs. [\[Source Code\]](#)

TALKS AND WORKSHOPS

- [1] Cohere For AI - Community Talks: On the Reliability of Watermarks for LLMs. November 1, 2023. [\[Recording\]](#)
- [2] DALL·E mini: Zero-Shot Text-to-Image Generation. September 10, 2021. [\[Recording\]](#)
- [3] Git & Github Workshop by UIU APP FORUM. August 05, 2021. [\[Recording\]](#)
- [4] OOP Workshop on Java (Five Day Long). February 09, 2021. [\[Recording\]](#)

AWARDS AND CONTRIBUTIONS

- [1] Dean's fellowship (2022, 2023), UMD.
- [2] Secured 1st position at [Huggingface JAX/FLAX Community Event](#) with the project [DALL·E mini](#).
- [3] Received [Global \(ML\) Teaching Fellowship](#) by Delta Analytics for 2021 session.
- [4] One of the contributors in the [Bengali translation](#) of Yann LeCun's [Deep Learning course](#) at NYU.
- [5] University Merit Scholarship for academic excellence in all trimesters, UIU.

TEACHING EXPERIENCE

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| Graduate Teaching Assistant <i>University of Maryland, College Park</i> | 2022-Present |
| <ul style="list-style-type: none">• Professor Marine Carpuat's Natural Language Processing (CMSC 470) - Fall '22 | |
| Teaching Assistant <i>Neuromatch Deep Learning Summer School, USA</i> | 2022 |
| <ul style="list-style-type: none">• Conducted weeks long tutorials on Deep Learning. | |