Dawit Mureja Argaw

Ph.D. Candidate, EE, KAIST

Webpage: https://dawitmureja.github.io

Email: dawitmureja@kaist.ac.kr

EDUCATION

KAIST — Daejeon, South Korea
Integrated M.S./Ph.D. in Electrical Engineering — Sep 2018 - Feb 2025

KAIST — Daejeon, South Korea
B.S. in Electrical Engineering; GPA: 3.9/4.3 (Magna Cum Laude) — Sep 2014 - Jul 2018

RESEARCH EXPERIENCE

NVIDIA Research — Santa Clara, CA
Research Intern, Deep Imagination Research Group — Nov 2023 - Oct 2024

Adobe Research — San Jose, CA
Research Intern, Natural Language Group — May 2023 - Sep 2023

KAUST — Saudi Arabia (Remote)
Research Intern, Image and Video Understanding (IVUL) Lab — Nov 2022 - May 2023

Adobe Research — San Jose, CA (Remote)
Research Intern, Deep Learning Group — Aug 2021 - Nov 2021

KAIST — Daejeon, South Korea
Research Assistant, Robotics and Computer Vision (RCV) Lab — Sep 2018 - Sep 2023

KAIST — Daejeon, South Korea
Research Assistant, Multimodal AI (MMAI) Lab — Sep 2023 - Present

SELECTED PUBLICATIONS

- *High-Quality Joint Image and Video Compression with Causal VAE*. **ICLR**, 2025.
  Dawit Mureja Argaw, Xian Liu, Qinsheng Zhang, Joon Son Chung, Ming-Yu Liu, Fitsum Reda.

- *Scaling Up Video Summarization Pretraining with Large Language Models*. **CVPR**, 2024.
  Dawit Mureja Argaw, Seunghyun Yoon, Fabian Caba Heilbron, Hanieh Deilamsalehy, Trung Bui, Zhaowen Wang, Franck Dernoncourt, Joon Son Chung.

- *Towards Automated Movie Trailer Generation*. **CVPR**, 2024.
  Dawit Mureja Argaw, Mattia Soldan, Alejandro Pardo, Chen Zhao, Fabian Caba Heilbron, In So Kweon, Bernard Ghanem.

- *Long-range Multimodal Pretraining for Movie Understanding*. **ICCV**, 2023.
  Dawit Mureja Argaw, Fabian Caba Heilbron, Joon-Young Lee, Markus Woodson, In So Kweon.

- *The Anatomy of Video Editing: A Dataset and Benchmark Suite for AI-Assisted Video Editing*. **ECCV**, 2022.
  Dawit Mureja Argaw, Fabian Caba Heilbron, Joon-Young Lee, Markus Woodson, In So Kweon.

- *Long-term Video Frame Interpolation via Feature Propagation*. **CVPR**, 2022.
  Dawit Mureja Argaw, In So Kweon.

- *Motion-blurred Video Interpolation and Extrapolation*. **AAAI**, 2021.
  Dawit Mureja Argaw, Junsik Kim, Francois Rameau, In So Kweon.

- *Optical Flow Estimation from a Single Motion-blurred Image*. **AAAI**, 2021.
  Dawit Mureja Argaw, Junsik Kim, Francois Rameau, Jae Won Cho, In So Kweon.

- *Blurry Video Compression: A Trade-off between Visual Enhancement and Data Compression*. **WACV**, 2024.
  Dawit Mureja Argaw, Junsik Kim, In So Kweon.

- *Restoration of Video Frames from a Single Blurred Image with Motion Understanding*. **CVPR-W** (**Oral**), 2021.
  Dawit Mureja Argaw, Junsik Kim, Francois Rameau, Chaoning Zhang, In So Kweon.

Honors and Awards

- **Top W&B User (812,962 hours tracked in 2024)** 2024
  Weights & Biases
- **Top Reviewer Award** 2023
  Conference on Neural Information Processing Systems (NeurIPS)
- **Outstanding Reviewer Award** 2023
  CVEU Workshop at ICCV
- **Outstanding Reviewer Award** 2023
  International Conference on Computer Vision (ICCV)
- **Best Poster Award** 2022
  What is Motion For? (WiMF) Workshop at ECCV
- **Outstanding Reviewer Award** 2022
  European Conference on Computer Vision (ECCV)
- **Finalist** 2021
  Qualcomm Innovation Fellowship Korea
- **Magna Cum Laude** 2018
  KAIST Electrical Engineering Department
- **Excellent Research Award** 2017
  KAIST Undergraduate Research Participation (URP)
- **Dean's List** 2015
  KAIST School of Freshman
- **KAIST Scholarship** 2014-2024
  Full scholarship for B.S., and Integrated M.S./Ph.D. programs

Academic Services

- **Reviewer**: ICML, ICLR, NeurIPS, CVPR, ICCV, ECCV, BMVC, WACV, TPAMI, ICRA

- **Student Volunteer**: ICLR 2020, ICML 2020, NeurIPS 2020