

# Dawit M. Argaw

Ph.D. Candidate, EE, KAIST

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## RESEARCH INTERESTS

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My research interests lie in the general areas of computer vision and deep learning with a particular focus on video-related topics including video restoration, video synthesis, video editing, long-form video understanding, and multimodal video understanding, but not limited to.

## EDUCATION

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- **KAIST** Daejeon, South Korea  
Integrated M.S./Ph.D. in Electrical Engineering; supervised by Prof. In So Kweon  
Sep 2018 - Present
- **KAIST** Daejeon, South Korea  
B.S. in Electrical Engineering; GPA: 3.9/4.3 (Magna Cum Laude)  
Sep 2014 - Jul 2018

## PUBLICATIONS

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- **Dawit M. Argaw**, Fabian Caba Heilbron, Joon-Young Lee, Markus Woodson, In So Kweon. Long-range Multimodal Pretraining for Movie Understanding. **ICCV**, 2023.
- **Dawit M. 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 M. Argaw**, In So Kweon. Long-term Video Frame Interpolation via Feature Propagation. **CVPR**, 2022.
- **Dawit M. Argaw**, Junsik Kim, Francois Rameau, In So Kweon. Motion-blurred Video Interpolation and Extrapolation. **AAAI**, 2021.
- **Dawit M. Argaw**, Junsik Kim, Francois Rameau, Jae Won Cho, In So Kweon. Optical Flow Estimation from a Single Motion-blurred Image. **AAAI**, 2021.
- **Dawit M. Argaw**, Junsik Kim, Francois Rameau, Chaoning Zhang, In So Kweon. Restoration of Video Frames from a Single Blurred Image with Motion Understanding. **CVPR-W (Oral)**, 2021.
- Chaoning Zhang\*, Philipp Benz\*, **Dawit M. Argaw**, Seokju Lee, Junsik Kim, Francois Rameau, Jean Charles Bazin, In So Kweon. ResNet or DenseNet: Introducing Shortcuts to ResNet. **WACV**, 2021.
- Chaoning Zhang, Francois Rameau, Junsik Kim, **Dawit M. Argaw**, Jean Charles Bazin, In So Kweon. DeePTZ: Deep Self-Calibration for PTZ cameras. **WACV**, 2020.
- Chaoning Zhang, Francois Rameau, Seokju Lee, Junsik Kim, Philipp Benz, **Dawit M. Argaw**, Jean Charles Bazin, In So Kweon. Revisiting Residual Networks with Nonlinear Shortcuts. **BMVC (Spotlight)**, 2019.
- **Dawit M. Argaw\***, Malinda Vania\*, Deukhee Lee. Automatic spine segmentation from CT images using convolutional neural network via redundant generation of class labels. **JCDE**, 2019 (\*equal contribution).

## RESEARCH EXPERIENCE

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- **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 - Nov 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 - Present

## HONORS AND AWARDS

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- **Best Poster Award** 2022  
What is Motion For? (WiMF) Workshop, ECCV
- **Outstanding Reviewer Award** 2022  
European Conference on Computer Vision (ECCV)
- **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

## ACADEMIC SERVICES

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- **Reviewer:** CVPR (2021, 2022, 2023), ICCV (2021, 2023), ECCV 2022, BMVC (2022, 2023), NeurIPS 2023, TPAMI
- **Student Volunteer:** ICLR 2020, ICML 2020, NeurIPS 2020

## REFERENCES

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- **Prof. In So Kweon**  
Professor, School of Electrical Engineering, KAIST  
Relationship: M.S. and Ph.D. advisor  
Email: iskweon77@kaist.ac.kr
- **Dr. Fabian Caba Heilbron**  
Research Scientist, Adobe Research  
Relationship: Internship mentor and collaborator  
Email: caba@adobe.com
- **Dr. Joon-Young Lee**  
Senior Research Scientist, Adobe Research  
Relationship: Internship mentor and collaborator  
Email: jolee@adobe.com