

Wonyong Seo

PhD Candidate at KAIST

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[Google Scholar](#) — [GitHub](#) — [LinkedIn](#) — [Personal Website](#)

Research Interests

My research interests span the full spectrum of video understanding, ranging from low-level tasks such as **optical flow** and **video frame interpolation (VFI)** to high-level generative modeling, including **video editing** and **video diffusion models**.

Education

KAIST (Korea Advanced Institute of Science and Technology)	Daejeon, South Korea
Ph.D. Candidate in Electrical Engineering	Mar. 2023 – Present
– Advisor: Prof. Munchurl Kim (VICLab)	
M.S. in Electrical Engineering	Mar. 2021 – Feb. 2023
– Advisor: Prof. Munchurl Kim (VICLab)	
B.S. in Electrical Engineering	Mar. 2016 – Feb. 2021
Gyeonggi Science High School for the Gifted	Mar. 2013 – Feb. 2016

Publications

BiM-VFI: Bidirectional Motion Field-Guided Frame Interpolation for Video with Non-uniform Motions

Wonyong Seo, Jihyong Oh, Munchurl Kim

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025.

Lightweight optical flow estimation using 1D matching

Wonyong Seo, Woonsung Park, Munchurl Kim

IEEE Access, 2024.

AIM 2020 challenge on video temporal super-resolution

Wonyong Seo, Woonsung Park, Munchurl Kim

ECCV Workshop, 2020.