

# Wonyong Seo

PhD Candidate at KAIST

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

## Research Interests

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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

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<b>KAIST (Korea Advanced Institute of Science and Technology)</b>	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
<b>Gyeonggi Science High School for the Gifted</b>	Mar. 2013 – Feb. 2016

## Publications

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**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.