Hoyong Kwon

Ph.D candidate in KAIST
Advisor: Kuk-Jin Yoon

Email: kwonhoyong3@kaist.ac.kr
Mobile: +82-10-9722-9884
KAIST, ME Bldg (N7-4) #5123, 291 Daehak-ro, Yuseong-gu, Daejeon 34141

Personal Data

- **Birth / Nationality**: 15th March, 2001 / Republic of Korea
- **Language**: Korean(First language), English

Education

- **Ph.D candidate** — March 2025 – Present
  The Robotics Program (Advisor: Kuk-Jin Yoon) — GPA: 3.96/4.3
  Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
- **Master of Science (M.S.)** — September 2023 – February 2025
  Kim Jaechul Graduate School of AI (Advisor: Kuk-Jin Yoon) — GPA: 3.95/4.3
  Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
- **Bachelor of Science (B.S.)** — March 2019 – August 2023
  School of Computing and Electrical Engineering (Double Major) — GPA: 3.91/4.3
  Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
- **Incheon Science High School** — March 2017 – February 2019
  Early graduation

Research Interest

- **Computer Vision and Deep Learning**
  - Multi-modal Learning
  - Semi/Weakly/Self-supervised Learning

Publications

- Jongoh Jeong*, **Hoyong Kwon***, Minseok Kim* and Kuk-Jin Yoon, "Multimodal Distribution Matching for Vision-Language Dataset Distillation," The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026. (*: Equal Contribution)
- Jihun Kim*, **Hoyong Kwon***, Hyeokjun Kweon* and Kuk-Jin Yoon, "Bootstrapping Video Semantic Segmentation Model via Distillation-assisted Test-Time Adaptation," The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026. (*: Equal Contribution)
- Jihun Kim*, **Hoyong Kwon***, Hyeokjun Kweon*, Wooseong Jeong, and Kuk-Jin Yoon, "DC-TTA: Divide-and-Conquer Framework for Test-Time Adaptation of Interactive Segmentation," International Conference on Computer Vision (ICCV), 2025. (*: Equal Contribution)
- **Hoyong Kwon**, Jaeseok Jeong, Sung-Hoon Yoon, and Kuk-Jin Yoon, "Phase Concentration and Shortcut Suppression for Weakly Supervised Semantic Segmentation," European Conference on Computer Vision (ECCV), 2024.
- Sung-Hoon Yoon, **Hoyong Kwon***, Jaeseok Jeong*, Daehee Park, and Kuk-Jin Yoon, "Diffusion-Guided Weakly Supervised Semantic Segmentation," The European Conference on Computer Vision (ECCV), 2024.
  (*: Equal Contribution)
- Sung-Hoon Yoon, **Hoyong Kwon**, Hyeonseong Kim, and Kuk-Jin Yoon, "Class Tokens Infusion for Weakly Supervised Semantic Segmentation," IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

Research Experiences

- **Project Leader** — March 2025 – Present
  "Development of Mobility and Connectivity Platform for Unmanned Autonomous Delivery"
  Funded by Korea Government (The Ministry of Trade, Industry & Energy, MOTIE)
- **Project Member** — January 2024 – February 2025
  "Development of Mobility and Connectivity Platform for Unmanned Autonomous Delivery"
  Funded by Korea Government (The Ministry of Trade, Industry & Energy, MOTIE)
- **Undergraduate Internship** — March 2022 – August 2022
  "KAIST School of Computing Co-op Internship in NCSOFT Vision AI Lab Recognition Team"

Serve as Reviewer

- NeurIPS25, AAAI26, CVPR26, ECCV26, IEEE Transactions on Multimedia

Honors and Awards

- Magna Cum Laude, KAIST 2023
- National Science & Technology Scholarship, Korea Student Aid Foundation 2021 - 2022
- Dean's List, KAIST College of Engineering 2020 Spring