BYUNGWOO JEON

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RESEARCH INTEREST

The northstar of my research is finding a unified and scalable framework aligned with multi-modalities and human preferences for various vision tasks. To this end, I'm delving into robot learning with multi-modal representations and focusing on building effective representations of the 3D world to be used for real-world scenarios.

• Multi-modal representation

- Alignment
- Hallucination

• Robot learning

- Action modeling
- Imitation learning

• High-dimensional vision

- Spatial understanding
- Temporal understanding
- Motion estimation

PUBLICATIONS

C: conference, J: journal, W: workshop, P: preprint / * equal contribution

- [P1] Consistent Absolute Depth Estimation via Coordinated Feature Synthesis in 3D Space Subin Kim*, Seong Hyeon Park*, <u>Byungwoo Jeon</u>, Sihyun Yu, Kihyuk Sohn, and Jinwoo Shin Preprint
- [C1] TrackIME: Enhanced Video Point Tracking via Instance Motion Estimation Seong Hyeon Park, Huiwon Jang, <u>Byungwoo Jeon</u>, Sukmin Yun, Paul Hongsuck Seo, and Jinwoo Shin Conference on Neural Information Processing Systems (NeurIPS), 2024, <u>Spotlight Presentation</u>

WORK EXPERIENCE

ALINLAB, Research Intern (advisor: Prof. Jinwoo Shin)	Jeongja, South Korea / Mar 2023 - Aug 2024
Arcreal, ML Engineer (host: Prof. Jinwoo Shin)	Gangnam, South Korea / Jan 2023 - Jan 2024
MLVLAB, Research Intern (advisor: Prof. Hyunwoo J. Kim)	Anam, South Korea / Jul 2022 - Dec 2022
M-monstar, Fullstack Engineer	Pangyo, South Korea / Jul 2021 - Aug 2021

EDUCATION

KAIST, M.S. student in Artificial Intelligence (advisor: Prof. Jinwoo Shin)	Sep 2024 -	Aug 2026 (Expected)
Korea University, B.S. in Computer Science and Engineering, Statistics (second	major)	Mar 2020 - Aug 2024

EXTRACURRICULAR ACTIVITIES

Google Developer Student Clubs @ Korea University, Lead and Founder

Aug 2022 - Jul 2023

HONORS & AWARDS

Silver Prize, K-Data Science Hackathon, 2023 (\$2,000) Top 8, Artificial Intelligence Grand Challenge, 2022 Dean's List, Korea University, 2020 - 2023

PROJECTS

Google DSC, "Google Solution Challenge: Recovery," 2024

Google DSC, "Horang Studio: diffusion-based personalized AI profile service," 2023

Google DSC, "Google Solution Challenge: digiHow," 2023

SELECTED TALKS

Yonsei & Korea University, Google DSC, "Towards the New World of Computing: CV on Real-world," Dec 2024 Korea University, Google DSC, "Recent Advances in Machine Learning," Nov 2023

SKILLS

- Language
 - **Python** Advanced
 - C/C++ Advanced
 - **Javasciprt** Intermediate
- Library
 - **PyTorch** Advanced
 - **TensorFlow** Advanced