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 3D/4D reconstruction problems and focusing on building effective representations of the 3D world to be used in real-time for real-world problems.

- **High-dimensional vision**
  - Implicit Neural Representations
  - Gaussian Splatting
- **Generative models**
  - Diffusion models
  - Video Generation

WORK EXPERIENCE

ALINLAB, Research Intern (host: 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 (host: 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./Ph.D. student in Artificial Intelligence (advisor: Prof. Jinwoo Shin)	Sep 2024 - Current
Korea University, B.E. in Computer Science and Engineering, Statistics (second major)	Mar 2020 - Aug 2024

PUBLICATIONS

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

[P1] TrackIME: Enhanced Video Point Tracking via Instance Motion Estimation
Seong Hyeon Park, Huiwon Jang, <u>Byungwoo Jeon</u>, Sukmin Yun, Paul Hongsuck Seo, Jinwoo Shin

MENTORING

Byungjun Yoon (B.S. @ POSTECH). Co-advised a project, working in progress.

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

SELECTED TALKS

Korea University, Google DSC, "Recent Advances in Machine Learning," Nov 2023

PROJECTS

Google DSC, "Google Solution Challenge: Recovery," 2024
Google DSC, "Horang Studio: personalized AI profile service," 2023
Google DSC, "Google Solution Challenge: digiHow," 2023