

Sangwon Beak

✉ bsw1907@snu.ac.kr <https://tlb-miss.github.io/>  TLB-MISS

Education

- M.S./Ph.D.** **Seoul National University (SNU), Korea** Sep 2023 – Present
Interdisciplinary Program in Artificial Intelligence
- Adviser: [Hanbyul Joo](#) 
- B.S.** **Seoul National University (SNU), Korea** Mar 2016 – Feb 2023
College of Liberal Studies
- Double Major (*Computer Science and Engineering & Statistics*)
 - cum laude
 - Military Service, ROK Air Force (Mar 2018 - Feb 2020)

Publications

Learning 3D Object Spatial Relationships from Pre-trained 2D Diffusion Models

Sangwon Beak, Hyeonwoo Kim, Hanbyul Joo

arXiv preprint arXiv:2503.19914, 2025

DAViD: Modeling Dynamic Affordance of 3D Objects using Pre-trained Video Diffusion Models

Hyeonwoo Kim, Sangwon Beak, Hanbyul Joo

arXiv preprint arXiv:2501.08333, 2025

Experience

- Visual Computing Lab**, Undergraduate Research Intern Seoul, South Korea
Aug 2022 – Aug 2023
- Research Area : Generalizable few-shot NeRF
 - Advisor : Hanbyul Joo
- Software Platform Lab**, Undergraduate Research Intern Seoul, South Korea
Jan 2022 Jun 2022
- Research Area : Compression of large-scale language model
 - Advisor : Byung-Gon Chun
- Architecture and Code Optimization Lab**, Undergraduate Research Intern Seoul, South Korea
Jan 2021 Feb 2021
- Research Area : Billion-scale similarity search accelerator
 - Advisor : Jae W. Lee

Academic Service

Conference Reviewer

- *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024*

Teaching

- Teaching Assistant**, Seoul National University (SNU) Spring 2024
- M1522.007100, 3D Computer Vision
- Teaching Assistant**, Seoul National University (SNU) Fall 2024
- 4190.408, Artificial Intelligence

- M1522.001000, Computer Vision