MinJu Jeon

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Objective

AI researcher with hands-on experience in large-scale multimodal model training and data-centric optimization. My work spans vision-language pre-training, post-training refinement (data curation, synthetic caption generation, retrieval-augmented learning), and production deployment of multimodal systems.

Experience

- **NAVER Cloud** [🌐] *Dec. 2025 - Present*
  Research Intern, Voice Tech Seongnam, South Korea
  – Developed robust multilingual G2P model for noisy, non-standard inputs
  – Built G2P benchmark for non-canonical words across KO, EN, and VI
  – Analyzed user corpora to identify failure modes in standard G2P systems
- **Hanyang Multi-Model AI Laboratory** *Sep. 2024 - Present*
  Research Assistant Seoul, South Korea
  – Researching Saliency-Aware Video Reweighting and Retrieval-Augmented Learning for DVC
  – Collaborated with Piaspace on industrial research projects for automated highlight extraction
- **Hanyang Multi-Model AI Laboratory** *March. 2023 - Aug. 2024*
  Undergraduate Research Intern Seoul, South Korea

Education

- **Hanyang University** *2024 - 2026 (Expected)*
  M.S. in Data Science (Advisor: Dong-Jin Kim) Seoul, South Korea
- **Hanyang University** *2020 - 2024*
  B.S. in Industrial Engineering, Big Data Science (Double Major) Seoul, South Korea

Projects

- **Retrieval-Augmented Dense Video Captioning and QA System** *2025*
  Funded by Piaspace
  – Built an end-to-end pipeline for automated highlight extraction and dense captioning of long-form videos (1hr+)
  – Developed a retrieval-augmented QA module enabling natural language queries over video content
- **Risk State Prediction Model Using Construction Site Images** *2025*
  Funded by Doosan Enerbility
  – Developed a VLM-based risk-state prediction system fine-tuned to detect unsafe worker behavior and equipment hazards
- **Zero-Shot Captioning for Driver Status Reporting Agents** *2024*
  Funded by Hyundai NGV
  – Proposed a zero-shot image captioning method for in-vehicle driver monitoring to generate natural language descriptions of driver states

Patents and Publications

C=Conference, J=Journal, P=Patent, S=In Submission, T=Thesis

First-Author Papers

[C.1] **MinJu Jeon**, S.-W. Kim, Y.-C. Kim, H. Kim, Dong-Jin Kim (2025). **Sali4Vid: Saliency-Aware Video Reweighting and Adaptive Caption Retrieval for Dense Video Captioning**. In *EMNLP* (Long, Main).

[J.1] **MinJu Jeon**, H. Kim, S.-W. Kim, Y. Oh, S. Lee, Dong-Jin Kim (2026). **Cap4Bridge: Caption-Guided Cross-Modal Contextualization with Stochastic Augmentation for Text-Video Retrieval**. *IEEE Access* (IF: 3.6).

[S.1] **MinJu Jeon**, S.-W. Kim, S. Lee, Dong-Jin Kim. **Enhancing Lightweight Image Captioning with Localized Features and Keyword Extraction**. Under Review.

[P.1] **MinJu Jeon**, et al. (2025). **Time-aware Video Frame Reweighting and Captioning Tool**. Reg. No.: C-2025-058417.

Co-Author Papers

[C.2] S.-H. Choi, **MinJu Jeon**, H. Oh, J. Lee, Dong-Jin Kim (2026). **Follow the Saliency: Supervised Saliency for Retrieval-augmented Dense Video Captioning**. In *CVPR*.

[C.3] Y.-C. Kim, S. Cha, S.-W. Kim, **MinJu Jeon**, H. Kim, Dong-Jin Kim (2026). **SAIL: Similarity-Aware Guidance and Inter-Caption Augmentation-based Learning for Weakly-Supervised DVC**. In *CVPR*.

[C.4] S.-W. Kim, **MinJu Jeon**, Y.-C. Kim, S. Lee, T. Kim, Dong-Jin Kim (2025). **SynC: Synthetic Image Caption Dataset Refinement with One-to-many Mapping for Zero-shot Image Captioning**. In *ACM MM*.

Skills

- **Programming Languages:** Python, C++, SQL, Java, LaTeX
- **Frameworks & Libraries:** PyTorch, CUDA, FAISS
- **Tools & DevOps:** Git, Docker, Linux
- **Research Interests:** Large Multimodal Models, Vision-Language Training, Training Data Refinement

Honors and Awards

- **Best Paper Award (Bronze),** IEIE Summer Annual Conference *2025*
- **Outstanding Poster Presentation Award,** IEIE Summer Annual Conference *2024*
- **Bronze Prize,** DACON AI Competition (Mandarin Orange Yield Prediction) *2022*

References

1. **Dong-Jin Kim** (Thesis Advisor)
   Assistant Professor, Department of Data Science, Hanyang University
   Email: djkim.hanyang@gmail.com