

# 김동민, DongMin Kim

Master's Student @ Music and Art Learning Lab, Sogang University

[dmkim@sogang.ac.kr](mailto:dmkim@sogang.ac.kr)

[homepage](#) | [google scholar](#) | [github](#) | [linkedin](#)

## RESEARCH INTEREST

### Optical Music Recognition, Training Data Synthesis, Semi-Supervised Learning, Music Information Retrieval

I teach machines to read and listen to music. My research focuses on developing frameworks that enable machines to translate between different modalities of music: from score images to symbolic notation to performance audio. I've built the YouTube Score Video dataset with **1,300+ hours** of paired score-audio data and achieved the first successful direct score-image-to-audio generation.

Currently, I focus on cross-modal music translation and optical music recognition (OMR), working with both Western classical and Korean traditional notation systems. My goal is to achieve human-level automatic music transcription across diverse musical traditions.

## EDUCATION


- **Sogang University** Aug 2023 -  
Seoul, South Korea  
*M.S. in Artificial Intelligence (Advisor: Dasaem Jeong)*
- **Sogang University** Feb 2014 - Feb 2020  
Seoul, South Korea  
*B.A.S. in Art and Technology*
  - GPA: 3.51/4.30
  - Honors: *Magna Cum Laude*

## PUBLICATIONS


(\*: EQUAL CONTRIBUTION)

- **Peer-reviewed Publication**
  - Dongmin Kim, Danbinaerin Han, Dasaem Jeong, and Jose J Valero-Mas, "**On the Automatic Recognition of Jeongganbo Music Notation: Dataset and Approach**", ACM Journal on Computing and Cultural Heritage (JOCCH), 2025.
  - Danbinaerin Han, Mark Gotham, Dongmin Kim, Hannah Park, Sihun Lee, and Dasaem Jeong, "**Six Dragons Fly Again: Reviving 15th-century Korean Court Music with Transformers and Novel Encoding**", in *Proc. of the 25th International Society for Music Information Retrieval Conference (ISMIR)*, 2024.
- **Workshop Papers**
  - Dongmin Kim, Danbinaerin Han, Dasaem Jeong, and Jose J Valero-Mas, "**Optical Music Recognition for Jeongganbo Notation of Korean Court Music**", in *Late Breaking/Demo in the 25th International Society for Musical Information Retrieval Conference (ISMIR)*, 2024.
- **Preprints**
  - Jongmin Jung\*, Dongmin Kim\*, Sihun Lee, Seola Cho, Hyungjoon Soh, Irmak Bukey, Chris Donahue, Dasaem Jeong, "**Unified Cross-modal Translation of Score Images, Symbolic Music, and Performance Audio**", [arXiv](#), 2025.

## PROJECTS

- **Research for the Restoration of 15th Century to Jeongak. Using Artificial Intelligence**  Sep 2023 - May 2024
  - Preprocessed Jeongganbo scorebooks to machine-readable Jeongganbo dataset
  - Implemented optical music recognition framework for Jeonggn-bo notation.

## EXPERIENCE

- **Myown Company**  Apr 2021 - Nov 2022  
Seoul, South Korea  
*System Developer*
  - Developed AI resume analyzer
  - Developed web service for job position matching
  - Developed company's official web site
  - Developed internal automation framework for email, notion, etc.

## TEACHING EXPERIENCE

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- **TA of CSE3013 “Computer Science and Engineering Laboratory I”** Fall 2023  
*Programming and algorithm practice using C++* Sogang University
- **TA of CSEG416 “Pattern Recognition”** Spring 2024  
*Introduction on pattern recognition with machine learning* Sogang University

## HONORS AND AWARDS

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- **Best Paper Award** Nov 2024  
*25th International Society for Music Information Retrieval Conference (ISMIR)*
  - As an one of the authors of “Six Dragons Fly Again: Reviving 15th-century Korean Court Music with Transformers and Novel Encoding”
- **Smilegate Scholarship for Digital Human & Entertainment trak** Aug 2023  
*Smilegate*
  - Funding: ₩36,000,000 (≈ \$25,000)

## LANGUAGE & SKILL & INTERESTS

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- **Languages:** English(fluent), Korean(native)
- **Programming Languages:** Python, Javascript, C/C++
- **Frameworks:** PyTorch, React.js, openFrameworks
- **Interests:** Noise Music, Synthesizer, Guitar Effectors, Films, Judo

## REFERENCES

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1. **Dasaem Jeong**  
Professor, Art and Technology  
Sogang University  
Email: [dasaemj@sogang.ac.kr](mailto:dasaemj@sogang.ac.kr)  
*Relationship: Thesis Advisor*