

김동민, DongMin Kim

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

RESEARCH INTEREST

Music Information Retrieval, Optical Music Recognition, Neural Synthesis, Automatic Mixing

My research focuses on enabling machines to comprehend and process the diverse modalities of music. Music creation is not merely about assembling audio; it involves the intricate interplay of notation, performance, and sound design. Musicians achieve this by inscribing melodies onto scores and tweaking synthesizer knobs to shape intriguing timbres. My goal is to empower machines to understand these modalities and support musicians in their creative processes. Currently, I am focusing on exploring Optical Music Recognition for both traditional and modern music notations, aiming to bridge the gap between musical heritage and technological advancement.


EDUCATION

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


PUBLICATIONS

- **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.

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
System Developer Seoul, South Korea
 - 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

- **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

- **Best Paper Award**

Nov 2024

25th International Society for Music Information Retrieval Conference (ISMIR)



- As 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 (\approx \$27,000)

LANGUAGE & SKILL & INTERESTS

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

REFERENCES

1. **Dasaem Jeong**
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Sogang University
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Relationship: Thesis Advisor