Junhyung Park

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B.S.Student of Department of Mathematical Science, KAIST

EDUCATION

Republic of Korea Air Force   Oct 2025 – Jul 2027
Military Service

Institute of Science Tokyo   Oct 2024 – Feb 2025
Exchange Research Student   *Advisor: Nagahara Kentaro*

KAIST   Feb 2021 – Present
Department of Mathematical Sciences, Advanced Major

Korea Science Academy of KAIST   Feb 2018 – Jan 2021
High school for gifted students   *Advisor: Jongmin Kim*

Jinsan Middle School   Mar 2015 – Jan 2018

SKILLS

English: 88 pts in TOEFL, 2021.1, 860 pts in TOEIC, 2024.1

Japanese: N1 Certificate for JLPT(Japanese-Language Proficiency Test), 2024.9

Tools: Python, LaTeX

Interested fields: Combinatorics, Ramsey theory, Artificial Intelligence for music

EXPERIENCE

High School Orchestra | *Leader*   Mar 2018 – Dec 2020
As a leader, arranger, librarian, piano performer and saxophone performer

Team DONUTS | *Team project for the Hanwha Science Challenge 2019*   Jan 2019 – Aug 2019
Axisless turbine for dam which doesn't harm to fishes, won Silver Prize

High School Graduation thesis | *under Jongmin Kim*   Mar 2020 – Dec 2020
Analysis of Asymptotic Behavior of S_n/n in Strong Law of Large Numbers

PIAST | *Member, Tutor*   Mar 2021 – Present
Piano club of KAIST, Performed piano several times,
Tutored several lessons about theory of harmony and piano improvisation

Samsung Talented Internship Program | *Intern*   Jul 2021 – Aug 2021
Fingerprint Recognition by Convolutional Neural Network

Individual Study | *under Jaehoon Kim, KAIST*   Feb 2022 – Jun 2022
Ergodic Ramsey Theory

Individual Study | *under Juhan Nam, KAIST*   Dec 2023 – Present
Audiovisual Piano Performance Dataset Collection and Fingering Detection

SORI | *research intern*   Jun 2025 – Sep 2025
Automatic Music Transcription

HOBBIES

Playing Piano & Listening to various musics
Played piano about 10 years, listen to several genres such as jazz, metal, classic, etc

Lego
Won several prizes at World Robot Olympiad 2011 and First Lego League 2013

PUBLICATIONS

PEER-REVIEWED PUBLICATIONS

PianoVAM: A multimodal piano performance dataset
Y. Kim, **J. Park**, J. Bae, K. Kim, T. Kwon, A. Lerch, and J. Nam
Proceedings of the 26th International Society for Music Information Retrieval Conference (ISMIR), 2025

PEER-REVIEWED ABSTRACT & WORKSHOP ARTICLES

Two Web Toolkits for Multimodal Piano Performance Dataset Acquisition and Fingering Annotation
J. Park, Y. Kim, J. Bae, K. Kim, T. Kwon, A. Lerch, and J. Nam
Late Breaking Demo in the 26th International Society for Musical Information Retrieval Conference (ISMIR), 2025