

Kyungyun Lee
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EDUCATION

- **Korea Advanced Institute of Science and Technology (KAIST)** Daejeon, S.Korea
Graduate School of Culture and Technology
Sept. 2018 – Aug. 2021
Music and Audio Computing Lab, advised by Prof. Juhan Nam
- **Korea Advanced Institute of Science and Technology (KAIST)** Daejeon, S.Korea
Major in Computer Science, minor in Industrial Design
Sept. 2011 – Aug. 2018
- **University of Cincinnati** Cincinnati, Ohio
Exchange program at the College of Design, Architecture, Art, and Planning (DAAP)
Sept. 2015 – Dec. 2015

EXPERIENCE

- **Weverse Company, Hybe** Seoul, S.Korea
Data Engineer
July 2021 - Present
 - **Real-time log pipeline:** Refactored and migrated the existing streaming and batch pipeline from Hive to delta format tables. Handling and monitoring large traffic data from artists, such as BTS.
- **Deezer** Paris, France
Research intern
April 2019 - Sept 2019
 - **Research topic:** Weakly-supervised instrument detection
- **Naver Corp.** Seongnam, S.Korea
Research intern
Summer 2018
 - **Research topic:** Learning latent features for identifying instrument sounds using variational autoencoders.
- **Ecco Design Inc.** NYC, New York
UX/UI intern
Jan 2016 – April 2016
 - Participated in ideation, user research, mockups for startups and LG electronics.

RESEARCH

- **PocketVAE: A Two-step model for Groove Generation and Control**
Kyungyun Lee, Wonil Kim, Juhan Nam
Arxiv 2021
- **Learning a Joint Embedding Space of Monophonic and Mixed Music Signals for Singing Voice**
Kyungyun Lee, Juhan Nam
Proceeding of 20th International Society of Music Information Retrieval (ISMIR) Conference, Delft, Netherlands, 2019
- **Deep Content-User Embedding Model for Music Recommendation**
Jongpil Lee, Kyungyun Lee, Jiyoung Park, Jangyeon Park, Juhan Nam
Arxiv 2018
- **Revisiting Singing Voice Detection: A Qualitative Review and the Future Outlook**
Kyungyun Lee, Keunwoo choi, Juhan Nam
Proceeding of 19th International Society of Music Information Retrieval (ISMIR) Conference, Paris, France, 2018
- **Music Galaxy Hitchhiker : 3D Web Music Navigation through Audio Space**
Dongwoo Suh, Kyungyun Lee, Jongpil Lee, Jiyoung Park, Juhan Nam
Late-Breaking/Demo session of 18th International Society of Music Information Retrieval (ISMIR) Conference, Suzhou, China, 2017

SKILLS

- **Languages, frameworks:** Python, Scala, Spark, SQL, Pytorch
- **Technologies, software:** Kafka, AWS, Databricks, Airflow