

Kyung Yun Lee

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EDUCATION

- **Aalto University** Espoo, Finland
PhD in Department of Signal Processing and Acoustics
Advised by Vesa Välimäki and Sebastian Schlecht. *Sept. 2023 –*
- **Korea Advanced Institute of Science and Technology (KAIST)** Daejeon, S.Korea
Master of Science in Graduate School of Culture and Technology *Sept. 2018 – Aug. 2021*
Music and Audio Computing Lab, advised by Juhan Nam
- **Korea Advanced Institute of Science and Technology (KAIST)** Daejeon, S.Korea
Bachelor of Science 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

- **Gaudio Lab** Seoul, S.Korea
AI/Audio research scientist *Mar 2022 - July 2023*
 - **RIR prediction with AI:** Developing a dynamic room impulse response estimation system for real-time applications, such as VR/AR.
- **Weverse Company, Hybe** Seoul, S.Korea
Data Engineer *July 2021 - Mar 2022*
 - **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.

PUBLICATIONS

- **Room Impulse Response Estimation in a Multiple Source Environment**
Kyungyun Lee, Jeonghun Seo, Keunwoo Choi, Sangmoon Lee, Ben Sangbae Chon
AES International Conference on Spatial and Immersive Audio 2023
- **Ethics of singing voice synthesis: Perceptions of users and developers**
Kyungyun Lee, Gladys Hitt, Emily Terada, Jinha Lee
Proceeding of 23rd International Society of Music Information Retrieval (ISMIR) Conference, Bengaluru, India, 2022
- **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

AWARDS & ACTIVITIES

- **KAIST Undergraduate Research Project Excellence Award 2017**
Dongwoo Suh, Kyungyun Lee
 Music Retrieval and Recommendation System Using Music Auto-Tagging
- **IDEA Award 2015: Bronze medal**
Sangmin Bae, Jonguk Im, Kyungyun Lee, Juhyeong Park and Subin Choi
 Roll-Di: Roll Screen Curtain Direction Indicator