

Yoojin Kim

luciaicul@kaist.ac.kr | [linkedin.com](https://www.linkedin.com/in/yoojin-kim) | [github.com](https://github.com/yoojin-kim)

Education

Korea Advanced Institute of Science and Technology (KAIST)
M.S. in Graduate School of Culture Technology, Music and Audio Computing Lab.

Aug.2018 - Present

Yonsei University, Seoul
B.S. in Computer Science

Mar.2014 - Aug.2018
3.76/4.3 (4.02/4.3 in major)

Research Interests

Data Science, Music Information Retrieval, Machine Learning, Deep Learning, Music Perception and Cognition

Publications

Papers

- **VirtuosoNet: A Hierarchical RNN-based System for Modeling Expressive Piano Performance**
D.Jeong, T.Kwon, Y.Kim, K.Lee and J.Nam
Proceedings of the 20th International Society for Music Information Retrieval Conference (ISMIR), 2019
- **Graph Neural Network for Music Score Data and Modeling Expressive Piano Performance**
D.Jeong, T.Kwon, Y.Kim, and J.Nam
Proceedings of the 36th International Conference on Machine Learning (ICML), 2019
- **Score and Performance Features for Rendering Expressive Music Performances**
D.Jeong, T.Kwon, Y.Kim, and J.Nam
Proceedings of the Music Encoding Conference, 2019

Patents

- **Method and Device for Multi-style Conditioned Expressive Piano Performance Rendering**
J.Nam, D.Jeong, T.Kwon, Y.Kim,
(Filing) 10-2020-0070101, 2020

Projects

Emotional Symbolic Music Data Analysis <i>Samsung Science & Technology Foundation, Music and Audio Computing Lab, KAIST</i>	<i>2019 - Present</i> <i>Advisor: Juhan Nam</i>
Expressive Performance Generation <i>Samsung Science & Technology Foundation, Music and Audio Computing Lab, KAIST</i>	<i>2019</i> <i>Advisor: Juhan Nam</i>
Session-based Purchase Prediction and Explanation using GAN <i>Data Intelligence Lab, Yonsei University</i>	<i>2018</i> <i>Advisor: Seung-won Hwang</i>
Haptic Retargeting using Sensors and VR Device <i>Computer Graphics and Applications Lab, Yonsei University</i>	<i>2017</i> <i>Advisor: In-kwon Lee</i>

Awards and Honors

VR/AR Grand Challenge Award <i>Korea VR Festival 2019</i>	<i>2019</i>
High Honor Award <i>Academic Achievement Award for high grade students, Yonsei University</i>	<i>2018, 2017</i>
The National Scholarship for Science and Engineering <i>National scholarship for undergraduates with strong academic performance in science and engineering</i>	<i>2017</i>

Experiences

Exhibition

- **Deep Space Music in Ways of Seeing**
NOS Visuals and KAIST Mac Lab, *Daejeon Museum of Art Special Exhibition*, Nov 2019 - Jan 2020

Teaching Experience

- Instructor, C++ language, KAIST IT Academy, Dec 2019 - Mar 2020
- Instructor, C language, KAIST IT Academy, Jun 2019 - Dec 2019
- TA, GCT501 Introduction to Culture Techonology, KAIST GSCT, Spring, Fall 2019
- TA, CS101 Introduction to Programming, KAIST CS, Fall 2018

Interns

- Research Intern, Computer Graphics and Applications Lab, Yonsei University, Summer 2017
- Research Intern for Data Analysis, Yonsei University Severance Hospital, Summer 2015

Technical Skills

Programming: Python, C/C++, Java

Data Science: PyTorch, Tensorflow, pandas

Developer Tools: Git, Docker

Extra-Curricular Activities

Amateur Cellist 2019 - Present

Festival Ensemble Gaudium

Amateur Violist 2014 - 2018

Yonsei Amateur Orchestra *principal in 2015*

Reference

Juhan Nam

Associate professor, Graduate School of Culture Technology, KAIST ([contact](#))