# Yoojin Kim

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# Education

## Korea Advanced Institute of Science and Technology (KAIST)

Aug. 2018 - Present

M.S. in Graduate School of Culture Technology, Music and Audio Computing Lab.

## 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, <u>Y.Kim</u>, 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**

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

### Awards and Honors

VR/AR Grand Challenge Award	2019
Korea VR Festival 2019	
High Honor Award	2018, 2017

# Academic Achievement Award for high grade students, Yonsei University

The National Scholarship for Science and Engineering

2017

National scholarship for undergraduates with strong academic performance in science and engineering

# **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

Assistant professor, Graduate School of Culture Technology, KAIST (contact)