

Yoojin Kim

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

Thesis

Analysis of Performance Features According to Emotional Expression in Classical Piano Music
M.S. thesis, KAIST, 2021

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

Academic Talk

Domestic

- **Analysis of Performance Features According to Emotional Expression in Classical Piano Music**
Y.Kim, J.Park, D.Jeong, T.Kwon, and J.Nam
Korean Society of Music Perception and Cognition, 2020

Projects

Music Data Sentiment Analysis *2019 - Present*
Samsung Science & Technology Foundation, Music and Audio Computing Lab, KAIST *Advisor: Juhan Nam*

Expressive Performance Generation *2019*
Samsung Science & Technology Foundation, Music and Audio Computing Lab, KAIST *Advisor: Juhan Nam*

Data Oversampling for Session-based Purchase Prediction & Explanation *2018*
Data Intelligence Lab, Yonsei University *Advisor: Seung-won Hwang*

Haptic Retargeting using Sensors and VR Device *2017*
Computer Graphics and Applications Lab, Yonsei University *Advisor: In-kwon Lee*

Awards and Honors

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

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, Data Processing using Python, KAIST IT Academy, Oct 2020 - Dec 2020
- 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 Technology, 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, scikit-learn, MySQL
Developer Tools: Git, Docker

Extra-Curricular Activities

Amateur Cellist <i>Festival Ensemble Gaudium</i>	2019 - Present
Amateur Violist <i>Yonsei Amateur Orchestra</i>	2014 - 2018 <i>principal in 2015</i>

Reference

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