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	*Mar.2014 - Aug.2018*
B.S. in Computer Science	*3.76/4.3 (4.02/4.3)*

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	*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*
Session-based Purchase Prediction and Explanation using GAN	*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	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, 2020
- Instructor, C language, KAIST IT Academy, 2019
- TA, GCT501 Introduction to Culture Techonology, KAIST GSCT, 2019
- TA, CS101 Introduction to Programming, KAIST CS, 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, NumPy, Matplotlib
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, Eclipse

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)