

Kanghyun Choi

Accelerated Computing Systems Lab
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RESEARCH INTERESTS

Neural Architecture Search, Data-free Neural Network Compression, Generative Adversarial Network

EDUCATION

- **Yonsei University** Seoul, Korea
Integrated Course of Masters and Ph.D. *September 2020 - Present*
- **Yonsei University** Seoul, Korea
B.S. in Computer Science, GPA 3.81/4.3 *March 2016 - August 2020*
- **American University** Washington D.C., USA
Study Abroad Program, Computer Science *January 2019 - May 2019*

PUBLICATIONS

Kanghyun Choi, Hyeyoon Lee, Deokki Hong, Joonsang Yu, Noseong Park, Youngsok Kim, Jinho Lee, “It’s All In the Teacher: Zero-Shot Quantization Brought Closer to the Teacher”, CVPR 2022, **Oral presentation**

Deokki Hong, **Kanghyun Choi**, Hyeyoon Lee, Joonsang Yu, Noseong Park, Youngsok Kim, Jinho Lee, “Enabling Hard Constraints in Differentiable Neural Network and Accelerator Co-Exploration”, DAC 2022

Kanghyun Choi, Deokki Hong, Noseong Park, Youngsok Kim, Jinho Lee, “Qimera: Data-free Quantization with Synthetic Boundary Supporting Samples”, NeurIPS 2021

Kanghyun Choi¹, Deokki Hong¹, Hojae Yoon¹, Joonsang Yu, Youngsok Kim, Jinho Lee, “DANCE: Differentiable Accelerator/Network Co-Exploration”, DAC 2021

PROJECTS

- **Semantic Modification Method for High-resolution Face Images** *2022*
Electronics and Telecommunications Research Institute (ETRI)
- **High-resolution Face Image Generation by Transformer-based GAN** *2021*
Electronics and Telecommunications Research Institute (ETRI)
- **Fast Distributed Deep Neural Network Training** *2020*
Korea Institute of Industrial Technology (KITECH)

AWARDS

- **The 28th Samsung Humantech Paper Award**: February 2022
Silver Prize, Computer Science and Engineering
- **High Honors at Graduation**: August 2020
- **Second prize at Software Capstone Design**: December 2019

TEACHING EXPERIENCE

- **Multi-core and GPU Programming (CSI4119)**: Teaching Assistant, Spring 2021, 2022
- **Logic Circuit Design (CSI2111)**: Teaching Assistant, Fall 2020

SKILLS

- **Python, C, C++, Java**
- **Pytorch, Tensorflow, Pandas, SciPy**
- **Korean (Native), English (Fluent), Japanese (Intermediate)**