

Kanghyun Choi

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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

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

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

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
- **Logic Circuit Design (CSI2111):** Teaching Assistant, Fall 2020

SKILLS

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