

# Kanghyun Choi

Accelerated Computing Systems Lab  
Dept. of Computer Science  
Yonsei University, Seoul, Korea (Republic of)

kanghyun.choi@yonsei.ac.kr  
github.com/iamkanghyunchoi  
+82-10-8893-9311

## 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 (To Appear)

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 (To Appear)

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

**Kanghyun Choi**<sup>1</sup>, Deokki Hong<sup>1</sup>, Hojae Yoon<sup>1</sup>, Joonsang Yu, Youngsok Kim, Jinho Lee, “DANCE: Differentiable Accelerator/Network Co-Exploration”, DAC 2021

## PROJECTS

---

- **High-resolution Face Image Generation by Transformer-based GAN** *2021-2022*  
*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
- **Logic Circuit Design (CSI2111):** Teaching Assistant, Fall 2020

## SKILLS

---

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