

□+1 (734) 496-1803 | ☑ jwnchung@umich.edu | ♠ jaewonchung.me | ☑ jaywonchung

Education

**University of Michigan, Ann Arbor** 

Ph.D. STUDENT IN COMPUTER SCIENCE AND ENGINEERING

Ann Arbor, MI, USA

Sep 2021 - current

Seoul National University

Seoul, South Korea

B.S. IN ELECTRICAL AND COMPUTER ENGINEERING

Mar 2015 - Aug 2021

- GPA: 4.04/4.3 (overall) 4.15/4.3 (major)
- · Summa Cum Laude
- · Period includes two years of military service, required to all Korean men.

## **Publications**

• ShadowTutor: Distributed Partial Distillation for Mobile Video DNN Inference, Jae-Won Chung, Jae-Yun Kim, Soo-Mook Moon, 49th International Conference on Parallel Processing, 2020 (Acceptance rate = 29%)

## Research Experience \_\_\_\_\_

Software Platform Lab SNU, South Korea

RESEARCH INTERN Apr 2020 - Present

- · Advised by Professor Byung-Gon Chun.
- · Working on Crane, a GPU cluster manager for AutoML workloads. Extensive systems programming and research on cluster scheduling policies.

#### **Virtual Machine and Optimization Lab**

SNU, South Korea

SENIOR PROJECT

Dec 2019 - Jun 2020

- Advised by Professor Soo-Mook Moon.
- Server-client collaborative DNN inference for video semantic segmentation. Knowledge distillation reduced network data transfer by 95%.

### Computer Vision Lab

SNU, South Korea
Jun 2019 - Dec 2019

- RESEARCH INTERN
- · Advised by Professor Kyoung Mu Lee.
- Searched for better meta-initialization methods for Model-Agnostic Meta-Learning (MAML) with neural memory modules and convex programs.

### **Lab of Imaging Science and Technology**

SNU, South Korea

RESEARCH INTERN

Jun 2019 - Aug 2019

- Advised by Professor Jongho Lee.
- · Designed and implemented a full deep learning pipeline for Quantitative Susceptibility Mapping. Accumulated experience on 3D MRI field data.

### **Honors & Awards**

Jul 2021 **Kwanjeong Overseas Scholarship,** Kwanjeong Educational Foundation, \$100,000 over four years

Seoul, South Korea

Mar 2019 Kwanjeong Undergraduate Scholarship, Kwanjeong Educational Foundation, \$20,000 over two years

Seoul, South Korea

# Extracurricular Activity \_\_\_\_\_

Deepest deepest.ai

MEMBER

Dec 2018 - Present

A free research group on all domains of deep learning. Surveyed broadly in many topics including CV, NLP, RL, and speech.

#### **Coursera Global Translator Community**

translate-coursera.org

LANGUAGE COORDINATOR Oct 2018 - Present

• Served as Language Coordinator, a selected position that reviews and confirms works by other translators and moderates communication.

August 27, 2021 Jae-Won Chung · Résumé

# **Teaching**

- Spring 2021 Operating Systems, Main TA, Managed course projects and led group design reviews.
- Fall 2020 Computer Organization (Undergraduate architecture), Peer tutor, Provided 30 hours of online lecture, Best Tutor Award!

## Skills.

Languages Python (including asyncio), C, Verilog, Shell, C++, Go, RustFrameworks PyTorch, NumPy, Matplotlib, Pillow, CUDA, OpenCV, OpenMPI

**Tools** Commandline, LaTeX, MATLAB

**English** TOEFL 120 (Perfect score, Feb 2020), GRE 167/170/4.5 (Mar 2018), TOEIC 990 (Perfect score, Oct 2018)