□+1 (734) 496-1803 | ■jwnchung@umich.edu | 🋪 jaewonchung.me | 🖸 jaywonchung

Education

University of Michigan Ann Arbor, MI, USA

PH.D. STUDENT IN COMPUTER SCIENCE AND ENGINEERING

Sep 2021 - present

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 _____

SymbioticLab UMich, United States

GRADUATE STUDENT RESEARCH ASSISTANT

Sep 2022 - Present

- Advised by Professor Mosharaf Chowdhury.
- Zeus: Understanding and optimizing GPU energy consumption of DNN training
- · Thor: Energy-aware DNN inference scheduling

Software Platform Lab SNU, South Korea

RESEARCH INTERN Apr 2020 - Jun 2022

- Advised by Professor Byung-Gon Chun.
- 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.
- · ShadowTutor: Server-client collaborative video DNN inference. Use of knowledge distillation reduced network data transfer by 95%.

Computer Vision Lab SNU, South Korea

Jun 2019 - Dec 2019

- · Advised by Professor Kyoung Mu Lee.
- 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

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 _____

JUNE 23, 2022 JAE-WON CHUNG · RÉSUMÉ **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.

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, Rust, C++, Verilog, C, Shell **Frameworks** PyTorch, CUDA, Pandas, Matplotlib

Tools Machine Learning, Deep Learning, Multi-Armed Bandit

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