

Jae-Won Chung

COMPUTER SCIENCE · COMPUTER ENGINEERING

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Education

Seoul National University

Seoul, South Korea

B.S. STUDENT IN ELECTRICAL AND COMPUTER ENGINEERING

Mar 2015 - Aug 2021 (expected)

- Current GPA: 4.09/4.3 (overall) 4.15/4.3 (major)
- Period includes two years of social 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

RESEARCH INTERN

Jun 2019 - Dec 2019

- 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

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.

Teaching

- **Fall 2020 Computer Organization (Undergraduate architecture)**, Peer tutor, Provided 30 hours of online lecture

Skills

Languages	Python (including asyncio), C, Verilog, Shell, C++, Go, Rust
Frameworks	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)