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*, an elastic GPU cluster resource manager for deep learning workloads.

Virtual Machine and Optimization Lab   *SNU, South Korea*

SENIOR PROJECT   *Dec 2019 - Jun 2020*

- Advised by Professor Soo-Mook Moon.
- Proposed a server-client collaborative video DNN inference scheme that drastically reduces network traffic via knowledge distillation.

Computer Vision Lab   *SNU, South Korea*

RESEARCH INTERN   *Jun 2019 - Dec 2019*

- Advised by Professor Kyoung Mu Lee.
- Better meta-initialization points for Model-Agnostic Meta-Learning (MAML) using neural memory modules and convex programs (DPP).

Lab of Imaging Science and Technology   *SNU, South Korea*

RESEARCH INTERN   *Jun 2019 - Aug 2019*

- Advised by Professor Jongho Lee.
- Designed, implemented, and trained a U-Net variant on in-vivo brain MRI field images and their COSMOS results.

Honors & Awards

Mar 2019 **Kwanjeong Undergraduate Scholarship**, Kwanjeong Educational Foundation   *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.

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), TOEIC 990 (Perfect score, Oct 2018), GRE 167/170/4.5 (Mar 2018)