

Han-seul Cho (조한슬)

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Research interests

Any topics that applies mathematics beyond mathematics.

For example, AI/ML, deep learning, fairness of ML, de-biasing ML, human-AI interaction, natural language processing, convex/nonconvex optimization, large batch training, statistical inference & prediction, (biomedical) imaging, etc.

Education

Graduate School of AI, KAIST

Master

Daejeon, Republic of Korea

Mar. 2022 – (Unspecified)

KAIST

Undergraduate

Daejeon, Republic of Korea

Mar. 2017 – Feb. 2022(expected)

Major in Mathematical Sciences

Minor in Computer Sciences

Credits Completed: 153 (2021 Spring)

GPA: 4.05/4.3 (2021 Spring)

University of Twente

Exchange Student

Enschede, Netherlands

Feb. 2020 – Jul. 2020

Major in Applied Mathematics

Grade: 9/10

Incheon Science High School

(Early Graduation)

Incheon, Republic of Korea

Mar. 2015 – Feb. 2017

Research experience

KAIST 2021 Post-AI research project May 2021 – Dec. 2021(Expected)

Project name: “Research on ‘AI-augmented Organizations’ of Collaborative Decision Making and Learning”

Principal Investigator: Sangyoon Yi (SOIL Lab, Grad. School of Future Strategy, KAIST)

Collaborative Researcher & Advisor: Jinkyoo Park (Systems Intelligence Lab, Industrial & Systems Eng., KAIST)

Algorithmic Intelligence Laboratory

Individual Study

Mar. 2021 – Jun. 2021

Advisor: Jinwoo Shin (ALIN-LAB, Grad. School of AI, KAIST)

Studied about optimizers for ‘large batch training’ such as LARS and LAMB; Performed an experiment on MNIST dataset to test performance of “modified” optimizer which combines the idea of “Layer-wise Learning Rate Scaling” and “Gradient Clipping”

Refer to this link: github.com/HanseulJo/LARS_GradClip

Bio Imaging, Signal Processing and Learning Lab

Individual Study

Sep. 2020 – Feb. 2021

Advisor: Jong-chul Ye (BISPL, Bio and Brain Eng., KAIST)

Assignment: Semantic Segmentation of Kidney Tumor with U-Net (KiTS19 Challenge); test dice of kidney has reached ≥ 0.95

Statistics Lab

Individual Study

Jul. 2020 – Aug. 2020

Advisor: Yeon-seung Chung (Mathematics, KAIST)

Read and self-studied the book '*An Introduction to Statistical Learning* (Springer)' (Chap. 1–5)

Clinical Neuroscience & Development Lab

Pre-URP Program (as a high school student)

Jan. 2016

Advisor: Bum-seok Jeong (Medical Sci. and. Eng., KAIST)

Participated in a research project "Finding reliable biomarkers related with distraction of voluntary attention"

Honors and scholarships

Dean's List (The School of Freshman, KAIST)

Fall, 2017

The National Scholarship for Science and Engineering (Korea Student Aid Foundation)

2017 – 2020

Skills

Programming Language & Platform

Familiar: Python, Matlab + Pytorch, Jupyter, Colab, \LaTeX

Novice: C, C++, R, Scalar, etc. + Git, Kaggle

Language – English

TOEIC: 925 (LC 460, RC 465) (2021.04.11)