

# Kim, Sang Hyun

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## EDUCATION

### KAIST (Korea Advanced Institute of Science and Technology)

Daejeon, South Korea

*M.S. student in Kim Jaechul Graduate School of AI*

*Expected Aug 2024*

- Researcher at **Statistical Inference and Machine Learning Lab** (advised by Prof. Juho Lee)
- Research topic: Data-efficient learning (Active/Self-supervised/...), Causal inference, Fairness, Explainable AI

### Yonsei University

Seoul, South Korea

*Bachelor of Business Studies & Double minors in Computer Science and Applied Statistics*

*Mar 2015 – Aug 2022*

- GPA: 4.02/4.3 overall (97.8/100), **[BIZ]** 4.08/4.3, **[CS]** 3.95/4.3, **[Stats]** 4.16/4.3
- Relevant coursework: **[BIZ]** Business Analytics A+, Marketing Strategy Models A+, Introductory Optimization A+  
**[CS]** Machine Learning A+, Multicore & GPU Programming A- **[Stats]** Mathematical Statistics A+, Nonparametric A+, Bayesian A+

## TECHNICAL & LANGUAGE SKILLS

**Languages** Python, R, C/C++, CUDA C++, Swift, Java \* in the order of fluency

**Frameworks/Libraries** PyTorch, HuggingFace, Tensorflow, Keras, JAX, igraph, SQL, Docker

**Certificates** SQLD SQL Developer, ADsP Advanced Data Analytics Semi-Professional, NVIDIA DLI certified instructor

**Korean** Native.

**English** Fluent. TOEIC 985/990, TEPS 488/600, OPIc IH. Served as a translator in USFK HQs (KATUSA).

## PUBLICATIONS

**Towards Safe Self-Distillation of Internet-Scale Text-to-Image Diffusion Models** 2023 ICML

*Sanghyun Kim, Seohyeon Jung, Balhae Kim, Moonseok Choi, Jinwoo Shin, Juho Lee – [safe-diffusion](#) (Workshop)*

**A Simple yet Powerful Deep Active Learning with Snapshots Ensembles** 2023 ICLR

*Seohyeon Jung\*, Sanghyun Kim\*, Juho Lee – [snapshot-al](#) (Poster)*

**Modeling Uplift from Observational Time-Series in Continual Scenarios** 2023 AAAI

*Sanghyun Kim, Jungwon Choi, Namhee Kim, Jaesung Ryu, Juho Lee – [ts4uplift](#) (Bridge – Oral)*

## RESEARCH EXPERIENCES

### Research Intern

Jan 2022 – Aug 2022

*SIML Lab, Kim Jaechul Graduate School of AI, KAIST*

*Daejeon, South Korea*

### Researcher [UpliftModeling](#)

Oct 2021 – Aug 2022

*Team lead, Industry-university cooperation project with AFI Inc.*

*Seoul, South Korea*

## TEACHING & MENTORSHIP

### Assistant Instructor & Mentor – Artificial Intelligence and Data Science

Mar 2022 – Dec 2022

*Government-funded AI training course, Likelion Inc.*

*Seoul, South Korea*

### Peer Mentor – R & Python Programming, Statistical Methods

Mar 2021 – Dec 2021

*Official mentoring program, Yonsei University*

*Seoul, South Korea*

## PROJECTS & EXTRACURRICULAR ACTIVITIES

### 2022 AI Challenge – Machine Reading Comprehension [MRC.Baseline](#)

May 2022 – Jul 2022

- Won 2<sup>nd</sup>/<sub>54 teams</sub> on Final LB (EM: 88.34) at the competition hosted by Korean Ministry of Science and ICT.
- Received the government grant of 200M KRW and participated in founding Quoqa AI Inc.

### EasyBART: Extractive & Abstractive SummarY BART [EasyBART](#)

Nov 2021 – Mar 2022

- Suggested a generation-aware sentence extraction module that combines two tasks with a single model.
- Improved ROUGE score by 5%p compared to the baseline (kobart-summarization).

### Naver Boostcamp AI-tech [boostcamp-ai](#)

Aug 2021 – Dec 2021

- Completed a government-funded AI training course hosted by Naver Connect Foundation.
- Participated in “CV-Image Classification”<sub>(7th/38)</sub>, “NLP-RE”<sub>(8th/19)</sub>, “NLP-ODQA”<sub>(8th/19)</sub> competitions.

### Yonsei Artificial Intelligence (YAI)

Aug 2021 – Jun 2022

- Participated in reading groups and led discussions on CV & NLP papers.