JaeHyun Ha

Department of Artificial Intelligence, POSTECH, South Korea

Homepage: rntlqvnf.github.io Advisor: Wook-Shin Han Data Systems Lab @ POSTECH Email: yshajae@postech.ac.kr

Research Interests

AI Databases, Graph Databases, GPU-accelerated Databases, Database Replay, Query Optimization, Cardinality Estimation

Education

POSTECH, Graduate School of Artificial Intelligence

Mar. 2022 – Present

M.S./Ph.D. Integrated Program

Data Systems Lab

Advisor: Prof. Wook-Shin Han

POSTECH, Dept. of Computer Science and Engineering

Mar. 2018 – Mar. 2022

B.S. in Computer Science and Engineering

GPA: 4.06 / 4.3

Class of 2021: Graduated with the highest GPA in CS Dept.

Ulsan Science High School

Mar. 2016 – Nov. 2017

Publications

- Lee, W., **Ha, J.**, Han, W. S., Park, C., Park, M., Han, J. DoppelGanger++ in Action: A Database Replay System with Fast Dependency Graph Generation. Proceedings of the VLDB Endowment (VLDB 2024 Demo)
- Lee, W. (equal contribution), Ha, J. (equal contribution), Han, W. S., Park, C., Park, M., Han, J., Lee,
 J. DoppelGanger++: Towards Fast Dependency Graph Generation for Database Replay. Proceedings of the
 ACM on Management of Data (SIGMOD 2024)
- Kim, K., **Ha, J.**, Fletcher, G., Han, W. S. Guaranteeing the O (AGM/OUT) runtime for uniform sampling and size estimation over joins. In Proceedings of the 42nd ACM SIGMOD-SIGACT-SIGAI Symposium on Principles of Database Systems (PODS 2023)

Honors and Fellowships

0	POSTECHIAN Fellowship	2022,2023
0	Samsung Dream Scholarship Foundation Scholar	2019-2021

Teaching Experiences

0	Teaching Assistant, CSED421: Database Systems	Spring 2022
0	Teaching Assistant, AIGS540: Big Data Processing	Spring 2024

Professional Experience

Digital Platform team, SK hynix Inc., Korea

Jul 2020 - Aug 2020

Software Engineer Intern

- o Developed real-time video comment overlay system for SK hynix's internal video streaming systems
- Won silver prize (2nd) in internship contest