Kyeongmin Cho

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Education

Korea Advanced Institute of Science and Technology (KAIST) — Sep. 2019 - Aug. 2024
Ph.D. in Computer Science (Advisor: Jeehoon Kang) — Daejeon, Korea
Dissertation: *Principles of Byte-Addressable Persistency*

Inha University — Mar. 2013 - Aug. 2019
B.S. in Computer Science & Engineering; and B.A. in Philosophy — Incheon, Korea

Employment

Rebellions Inc. — Sep. 2024 - Present
NPU Compiler Engineer — Seongnam, Korea

Web Application Developer at Marketit Inc. — Seoul, Korea, Jul. 2016 - Aug. 2017
Trainee at Software Maestro, Ministry of Science and ICT — Seoul, Korea, Jun. 2015 - Jun. 2016

Publications

Quantum Probabilistic Model Checking for Time-Bounded Properties
Seungmin Jeon, Kyeongmin Cho, Changu Kang, Janggun Lee, Hakjoo Oh, Jeehoon Kang
Object-oriented Programming, Systems, Languages, and Applications (**OOPSLA 2024**)

Memento: A Framework for Detectable Recoverability in Persistent Memory
Kyeongmin Cho, Seungmin Jeon, Azalea Raad, Jeehoon Kang
Programming Language Design and Implementation (**PLDI 2023**)

Revamping Hardware Persistency Models: View-Based and Axiomatic Persistency Models for Intel-x86 and Armv8
Kyeongmin Cho, Sung-Hwan Lee, Azalea Raad, Jeehoon Kang
Programming Language Design and Implementation (**PLDI 2021**)

Professional Services

Artifact Evaluation Committee: **POPL 2022**

Selected Honors and Awards

NAVER Ph.D. Fellowship Award — NAVER Corp., Dec. 2021

Best Award (1st place) in the Computer Science Capstone Design Competition — Dec. 2018
(Project: *A Framework for Fuzzing Android Applications*) — Inha University

Bronze Award (14th place) — Nov. 2014
in the ACM International Collegiate Programming Contest (**ICPC**) Regional Contest — ACM

Kiwoom Securities Financial Scholarship — Kiwoom Securities Corp., Feb. 2014 - Feb. 2015

Invited Talks

Chasing Dragons: Persistent Memory Programming Aug. 2023
in Korean Institute of Information Scientists and Engineers SIGPL Summer School

Memento: A Framework for Detectable Recoverability in Persistent Memory Apr. 2023
in Samsung Global Technology Symposium

Revamping Hardware Persistency Models Dec. 2021
in Korea Software Congress

Teaching Experience

KAIST CS220: Programming Principles Sep. 2023 - Dec. 2023
Teaching Assistant (Instructor: Jeehoon Kang) Daejeon, Korea

KAIST CS420: Compiler Design Mar. 2022 - Jun. 2022
Teaching Assistant (Instructor: Jeehoon Kang) Daejeon, Korea

KAIST CS431: Concurrent Programming Sep. 2021 - Dec. 2021
Teaching Assistant (Instructor: Jeehoon Kang) Daejeon, Korea

KAIST CS230: System Programming Mar. 2021 - Jun. 2021
Teaching Assistant (Instructor: Jeehoon Kang) Daejeon, Korea

Fastcampus Dec. 2015 - Jun. 2016
Instructor (Subject: *Python for Business Automation*) Seoul, Korea

Hansei Cyber Security High School Sep. 2015
Instructor (Subject: *Basic Algorithms*), Problem Setter (Youth CTF) Seoul, Korea