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Research Interest

My research lies in building fast and reliable data storage/processing systems by leveraging a spectrum of different memory/storage technologies.

Education

University of California, San Diego

La Jolla, CA

Expected Jun 2022

· Advisor: Prof. Steven Swanson

PH D IN COMPLITER SCIENCE

University of California, San Diego

La Jolla, CA

Jun 2020

Feb 2012

M.S. IN COMPUTER SCIENCE · Advisor: Prof. Steven Swanson

Seoul National University

Seoul, Korea

B.S. IN ELECTRICAL AND COMPUTER ENGINEERING

• Graduated with summa cum laude (GPA: 4.04/4.3)

Publication

CONFERENCE PAPERS

An Empirical Guide to the Behavior and Use of Scalable Persistent Memory

FAST

JIAN YANG, JUNO KIM, MORTEZA HOSEINZADEH, JOSEPH IZRAELEVITZ, STEVEN SWANSON

2020

Finding and Fixing Performance Pathologies in Persistent Memory Software Stacks

ASPLOS

JIAN Xu*, **JUNO KIM***, AMIRSAMAN MEMARIPOUR, STEVEN SWANSON (* CONTRIBUTED EQUALLY)

2019

The FuzzyLog: A Partially Ordered Shared Log

Joshua Lockerman, Jose Faleiro, **Juno Kim**, Soham Sankaran, Daniel Abadi, James Aspnes, Siddhartha Sen, MAHESH BALAKRISHNAN

2018

SHORT PAPERS/EARLY IDEAS

Sub-Zero: Zero-copy IO for Persistent Main Memory File Systems

APSvs

JUNO KIM, YUN JOON SOH, JOSEPH IZRAELEVITZ, JISHEN ZHAO, STEVEN SWANSON

2020

An Empirical Guide to the Behavior and Use of Scalable Persistent Memory

NVMW

Jian Yang, **Juno Kim**, Morteza Hoseinzadeh, Joseph Izraelevitz, Steven Swanson

2020

TECHNICAL REPORTS

Basic Performance Measurements of the Intel Optane DC Persistent Memory Module

arXiv

Joseph Izraelevitz, Jian Yang, Lu Zhang, **Juno Kim**, Xiao Liu, Amirsaman Memaripour, Yun Joon Soh, Zixuan Wang, YI XU, SUBRAMANYA R DULLOOR, JISHEN ZHAO, STEVEN SWANSON

2019

Talks

Sub-Zero: Zero-copy IO for Persistent Main Memory File Systems

Tsukuba, Japan

APSYS (VIRTUAL)

Aug 2020

ASPLOS Apr 2019

Work Experience_

IBM Research Storage Group

Almaden, CA

RESEARCH INTERN

Jun 2019 - Sep 2019

• Worked on building a testing tool using Pin for checking crash-consistency of programs written for persistent memories.

SAP Labs Korea Seoul, Korea

SOFTWARE ENGINEER Dec 2011 - Jul 2014

• Worked on building the core in-memory database engine, SAP HANA, with the focus on efficient database catalog access in distributed environment.

Teaching Experience _____

Modern Storage Systems (CSE 291A)

UCSD

TEACHING ASSISTANT

Fall 2019

- Instructor: Dr. Steven Swanson
- · Role: Built an infrastructure for testing correctness/crash-consistency of key-value stores written for persistent memory.

Service.

External Reviewer

DISC

2020

External Reviewer

IEEE MASCOTS

2019