

# JUNO KIM

*PhD Student in Computer Science*  
*Nationality: Korean*

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## RESEARCH INTERESTS

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I am generally interested in building fast, reliable, and flexible storage systems by leveraging emerging, persistent memory technologies. My current research focuses on the performance analysis and optimizations of file systems and applications by adapting their design to persistent memory. I am also interested in building distributed storage systems.

## EDUCATION

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Ph.D. student, Computer Science, University of California, San Diego Advised by Prof. Steven Swanson.	2017 - Present
B.S., ECE, Seoul National University Overall GPA: 4.04/4.3 ( <i>honors</i> )	Feb 2012

## PUBLICATIONS

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*Finding and Fixing Performance Pathologies in Persistent Memory Software Stacks.* ASPLOS 2019 (to appear). Jian Xu\*, **Juno Kim\***, Amirsaman Memaripour, and Steven Swanson. (\* denotes equal contribution.)

*The FuzzyLog: A Partially Ordered Shared Log.* OSDI 2018.  
Joshua Lockerman, Jose Faleiro, **Juno Kim**, Soham Sankaran, Daniel Abadi, James Aspnes, Siddhartha Sen, and Mahesh Balakrishnan.

## RELEVANT EXPERIENCE

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Graduate Researcher, University of California, San Diego <i>Topic: Persistent memory file systems and applications.</i> At UCSD, I am exploring potential ways for legacy applications (e.g., databases, key-value stores) and file systems to maximize their performances on persistent memory. Also, I am working on a new storage software design and implementation that is tailored for the characteristics of persistent memory.	Sep 2017 - Present
Graduate Researcher, Yale University <i>Topic: Partially ordered distributed storage system.</i> Shared log approach for building distributed storage systems has suffered scalability bottleneck by a centralized totally-ordered log. This work explored a new shared log design that exposes partial order to the programmers.	Aug 2016 - May 2017
Software Engineer, SAP Labs Korea <i>Topic: Main-memory database system SAP HANA.</i> In contrast to disk (or SSD) based database systems, main-memory database provides high performance by keeping entire data in fast, volatile memory. I worked on database metadata access optimizations in single and distributed settings for customer-ready database products.	Dec 2011 - July 2014

## PROGRAMMING SKILLS

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C/C++, Python, Java, Shell, Ocaml.

## LANGUAGES

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English, Japanese: Proficient. Korean: Native.