JIE ZHANG

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Declaration: Dr. Jie Zhang is aware of the IEEE and CS policies and procedures with respect to the Conflict of Interest (COI). Dr. Jie Zhang will follow the COI guideline related to SI/SS.

WORK EXPERIENCE

Peking University, Beijing, ChinaAssistant Professor, PhD advisorDepartment of Computer scienceJuly 2021 – CurrentKAIST, Daejeon, KoreaPostdoctoral ResearcherElectrical Engineering (Computing Division)March 2020 – May 2021

EDUCATION

Yonsei University, Incheon, Korea

PhD in Engineering

August 2015 – Feb 2020

University of Texas at Dallas, Richardson, Texas

PhD in Computer Engineering (transfer to Korea)

University of Texas at Dallas, Richardson, Texas

Advisor: Dr. Myoungsoo Jung

August 2014 – August 2015

University of Texas at Dallas, Richardson, Texas

Master of Science in Electrical Engineering

August 2012 – May 2014

Nanjing University of Posts and Telecommunications, Nanjing, China

BS in Communication Engineering (computer communication) September 2008 – July 2012

SELECTED PUBLICATIONS

MICRO'21 Ohm-GPU: Integrating New Optical Network and Heterogeneous Memory into GPU

Top Conference Multi-Processors

Jie Zhang, Myoungsoo Jung,

The 54th Annual IEEE/ACM International Symposium on Microarchitecture

ISCA'21 Revamping Storage Class Memory with Hardware Automated Memory-Over-Storage

Top Conference Solution

Jie Zhang, Miryeong Kwon, Donghyun Gouk, Sungjoon Koh, Nam Sung Kim,

Mahmut Kandemir, Myoungsoo Jung,

The IEEE/ACM International Symposium on Computer Architecture

ISCA'20 ZnG: Architecting GPU Multi-Processors with New Flash for Scalable Data Analysis

Top Conference Jie Zhang, Myoungsoo Jung,

The IEEE/ACM International Symposium on Computer Architecture

FAST'20 Scalable Parallel Flash Firmware for Many-core Architectures

Top Conference Jie Zhang, Miryeong Kwon, Michael Swift, Myoungsoo Jung,

The 18th USENIX Conference on File and Storage Technologies

HPCA'20 DRAM-less: Hardware Acceleration of Data Processing with New Memory

Top Conference Jie Zhang, Gyuyoung Park, David Donofrio, John Shalf, Myoungsoo Jung

26th IEEE International Symposium on High-Performance Computer Architecture

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HPCA'19 FUSE: Fusing STT-MRAM into GPUs to Alleviate Off-Chip Memory Access Overheads

Top Conference Jie Zhang, Myoungsoo Jung, Mahmut Kandemir,

25th IEEE International Symposium on High-Performance Computer Architecture

DAC'19 FlashGPU: Placing New Flash Next to GPU Cores

Top Conference Jie Zhang, Miryeong Kwon, Hyojong Kim, Hyesoon Kim, Myoungsoo Jung,

The 56th Design Automation Conference (DAC), 2019

OSDI'18 FlashShare: Punching Through Server Storage Stack from Kernel to Firmware for

Top Conference Ultra-Low Latency SSDs

Jie Zhang, Miryeong Kwon, Donghyun Gouk, Changlim Lee, Mohammad Alian, Myoungjun

Chun, Mahmut Kandemir, Nam Sung Kim, Jihong Kim, Myoungsoo Jung, 13th USENIX Symposium on Operating Systems Design and Implementation

MICRO'18 Amber: Enabling Precise Full-System Simulation with Detailed Modeling of All SSD

Top Conference Resources

Donghyun Gouk, Miryeong Kwon, Jie Zhang, Sungjoon Koh, Wonil Choi, Nam Sung Kim,

Mahmut Kandemir, Myoungsoo Jung,

The 51st Annual IEEE/ACM International Symposium on Microarchitecture

Eurosys'18 FlashAbacus: A Self-governing Flash-based Accelerator for Low-power Systems

Top Conference Jie Zhang, Myoungsoo Jung,

The European Conference on Computer Systems (EuroSys), 2018

IEEE International Symposium on Workload Characterization (IISWC), 2017

HPCA'16 DUANG: Fast and Lightweight Page Migration in Asymmetric Memory Systems

Top Conference Hao Wang, **Jie Zhang**, Gieseo Park, Sharmila Shridhar, Myoungsoo Jung, Nam Sung Kim,

IEEE Symposium on High Performance Computer Architecture (HPCA), 2016

PACT'15 NVMMU: Direct Solid State Disk Access for GPU-Accelerated Data Processing

Top Conference Jie Zhang, David Donofrio, John Shalf, Myoungsoo Jung,

The 24th International Conference on Parallel Architecture and Compilation Techniques

Honors

• 2019: Korea Computer Congress (KCC) -- Best Presentation Paper Award

• 2019: Annual Non-Volatile Memories Workshop (NVMW) -- Nominated as Memorable Paper Award

• 2020-2021: Korean BK21+ Scholarship

2021: Our storage-class memory research is selected as KAIST breakthrough 50 years

2022: Boya Young Scholar

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