

3rd Workshop on Memory-Centric Computing: Logistics

Dr. Geraldo F. Oliveira

<https://geraldofojunior.github.io>

ISCA 2025

21 June 2025

Brief Self Introduction



■ Dr. Geraldo F. Oliveira

- ❑ Researcher @ SAFARI Research Group since November 2017
- ❑ I am in the job market for industry positions
- ❑ <https://geraldofojunior.github.io/>
- ❑ geraldofojunior@gmail.com (Best way to reach me)
- ❑ <https://safari.ethz.ch>

■ Research in:

- ❑ Computer architecture, computer systems, hardware security
- ❑ Memory and storage systems
- ❑ Hardware security, safety, predictability
- ❑ Fault tolerance
- ❑ Hardware/software cooperation
- ❑ ...

Get the Materials Online



<https://events.safari.ethz.ch/isca25-MCCSys/doku.php>

Organizers

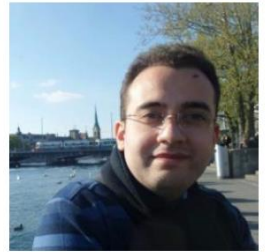
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■ Dr. Mohammad Sadrosadati

- ❑ Senior Researcher and Lecturer, SAFARI @ ETH Zürich
- ❑ <https://scholar.google.com/citations?user=-mHpDvAAAAAJ>



■ Ataberk Olgun

- ❑ PhD Candidate, SAFARI Research @ ETH Zürich
- ❑ <https://ataberkolgun.com/>



■ Prof. Onur Mutlu

- ❑ Professor of Computer Science at ETH Zurich
- ❑ <https://people.inf.ethz.ch/omutlu/index.html>



Agenda Workshop

- **Prof. Onur Mutlu:**
Recent Advances in Processing-in-DRAM
- **Dr. Alper Buyuktosunoglu:**
A Near-DRAM Accelerator for Compiler-Generated Fully Homomorphic Encryption Applications
- **Coffee Break**
- Processing-Using-Memory (PUM) Systems for Bulk Bitwise Operations
- **Ismail E. Yuksel**
Functionally-Complete Boolean Logic in Real DRAM Chips
- Processing-Near-Memory (PNM) Systems: Academia & Industry Developments
- **Manos Frouzakis:**
PIMDAL: Mitigating the Memory Bottleneck in Data Analytics using a Real Processing-in-Memory System
- **Dr. Mohammad Sadr:**
Processing-Near-Storage & Processing-Using-Storage

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