Bodun Hu

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Github: bdhu

Research Interests

Operating Systems, Heterogeneity, Virtualization, Distributed Systems, Networking, ML Systems

Education

2020–present **M.S. in Computer Science**, *The University of Texas at Austin*, Austin TX.

2016–2020 **B.S. in Computer Science**, *The University of Texas at Austin*, Austin TX.

Papers

[1] **Bodun Hu** and Christopher J. Rossbach. Altis: Modernizing GPGPU Benchmarks. In *Proceedings of the 2020 IEEE International Symposium on Performance Analysis of Systems and Software (ISPASS)*, August 2020. 14p 29.5%.

[2] Hangchen Yu, **Bodun Hu**, Ariel Szekely, and Christopher J. Rossbach. AKATHA: Accelerating Kernel Access to Hardware Acceleration. Currently on submission to EuroSys 2021, October 2020.

Awards

2020 2020 ISPASS Student Travel Award.

2020 Research Distinction by the College of Natural Sciences.

Experiences

2018 – 2020 **UTCS System Research Lab**, *Austin TX*, Research Assistant, Advisor: Christopher Rossbach.

2019 – 2020 **UTCS System Research Lab**, *Austin TX*, Research Assistant, Advisor: Simon Peter.

2016 – 2017 **UTCS AI Research Lab**, *Austin TX*, Research Assistant, Advisor: Cem Tutum.

2018 **H3C**, *Chengdu, China*, Software Engineering Intern.

2017 **Wisesoft**, *Chengdu, China*, Junior Software Engineer.

2015 **Lenovo**, *Chengdu, China*, Marketing Intern.

Teaching Experience

Spring 2020 **TA: Multicore Operating System Implementation (378)**, *The University of Texas at Austin*.
Instructor: Simon Peter

Talks

Aug 2020 *Altis: Modernizing GPGPU Benchmarking*, presented at ISPASS'20

Selected Projects

Altis, *https://github.com/utcs-scea/altis*.

- A new benchmark suite for modern GPGPU benchmarking.

AKATHA, *https://github.com/yuhc/kava*.

- Automatic kernel accelerator support construction.

Multicore Operating System Implementation, *a capability-based research OS by ETH Zurich*.

- Implemented core infrastructures including physical memory management, capability initialization, ELF parser, LRPC, RDMA based on Barrelfish OS.

bdOS.

- A microkernel based OS written in Rust.

Skills

Tools	Python, C/C++, Java, Go, Rust, Haskell, Matlab
Frameworks	OpenMP, MPI, PyTorch, Tensorflow, CUDA, Jekyll
Languages	English (fluent), Chinese(fluent)