

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%.

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
Nov 2020 *Akatha: Accelerating Kernel Access to Hardware Acceleration*, presented at Texas Systems Symposium

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)