

## 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  
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.

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## **Skills**

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