



Yigong Hu, Ph.D.




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Education

- 2017 – Present  **Ph.D. student** in Computer Science Department, Johns Hopkins University.
2013 – 2017  **B.E.** Computer Science, Huazhong University of Science and Technology.
Rank 1/258, Graduate with Honors

Work Experience


- Sep,2016 – Present  **Research Assitant** Computer Science Department, Johns Hokpins University.(Advisor: Ryan Huang)
Aug,2016 – July,2017  **Research Student.** Computer Science Department, Huazhong University of Science and Technology.(Advisor: Hai Jin, Deqing Zou)
May,2016 – Aug,2016  **Research Student.** Computer Science Department, University of Chicago.(Advisor: Shan Lu.)

Current Project

Ongoing Project


- Sep,2018 – Present  **Automaticlly detect performance misconfiguration in a variety of system such as MySQL, Apache server and etc.**

Finished Project

- Sep,2017- Aug,2018  **A new resource management mechanism for mobile system to mitigate run-time enrgy misbehavior, published in ASPLOS'19.**
 - Classify four types of energy-misbehavior based on a study of 109 energy misbehavior cases.
 - Propose lease, a mechanism commonly used in distributed systems, is a well-suited abstraction in resource-constrained mobile devices to mitigate app energy misbehavior
 - Design a lease-Based, utilitarian resource management(LeaseOS) on mobile system
 - LeaseOS can reduces wasted power by 92% on average without any usability disruption to the apps

Research Publications

Conference Proceedings

-  Hu, Y., Liu, S., & Huang, P. (2019, April). A Case for Lease-Based, Utilitarian Resource Management on Mobile Devices. In *Proceedings of the 24th international conference on architectural support for programming languages and operating systems (ASPLOS'19)*.

Skills

- Languages 📌 English, Mandarin Chinese.
- Coding 📌 Java, C + + , C, Python, SQL, \LaTeX ,
- Tool and System 📌 LLVM/Clang, Klee, Android Framework, MySQL.
- App Dev 📌 Android Programming

Honor and Award

- June.2017 Honor Graduated student(Summa Cum Laude)
- May.2017 Outstanding Undergraduated Thesis Award, Huazhong University of Science and Technology
- May.2015 Outstanding Undergraduates Exchange Fellowship, China Scholarship Council
Ratio: 0.01% of undergraduate students in China.
- Oct.2014 National scholarship, Ministry of Education of China
Ratio: 0.2% of undergraduate students in China.
- Oct.2015 Outstanding student scholarship, Huazhong University of Science and Technology
- Oct.2014 Outstanding student scholarship, Huazhong University of Science and Technology
- Oct.2013 Outstanding Freshman Scholarship, Huazhong University of Science and Technology