

# Runzhou Han

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## Research Interests

- Large-scale storage systems
- Serverless computing
- Data provenance

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## Education

- **Iowa State University:** *Sept.2019-now*  
Ph.D., Computer Engineering, advised by **Dr. Mai Zheng**.
- **Boston University:** *Sept.2017-Jan.2019*  
Master of Science, Electrical and Computer Engineering.
- **Wuhan University:** *Sept.2013-July.2017*  
Bachelor of Science, Physics.

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## Publication

- [1] **On the Reproducibility of Bugs in File-System Aware Storage Applications**  
Duo Zhang, Tabassum Mahmud, Om R. Gatla, Runzhou Han, Yong Chen, and Mai Zheng  
*To appear in the Proceedings of the 16th IEEE International Conference on Networking, Architecture, and Storage (NAS), 2022.*
- [2] **PROV-IO: An I/O-Centric Provenance Framework for Scientific Data on HPC Systems**  
Runzhou Han, Suren Byna, Houjun Tang, Bin Dong, and Mai Zheng  
*Proceedings of the 31st International Symposium on High-Performance Parallel and Distributed Computing (HPDC), 2022*
- [3] **A Study of Failure Recovery and Logging of High-Performance Parallel File Systems**  
Runzhou Han, Om R. Gatla, Mai Zheng, Jinrui Cao, Di Zhang, Dong Dai, Yong Chen, Jonathan Cook.  
*ACM Transactions on Storage (TOS), 2022.*
- [4] **SentiLog: Anomaly Detecting on Parallel File Systems via Log-based Sentiment Analysis**  
Di Zhang, Dong Dai, Runzhou Han, Mai Zheng.  
*Proceedings of the 13th ACM Workshop on Hot Topics in Storage and File Systems (HotStorage), July 2021.*  
*Best paper nominee!*
- [5] **Fingerprinting the Checker Policies of Parallel File Systems**  
Runzhou Han, Duo Zhang, Mai Zheng.  
*IEEE/ACM Fifth International Parallel Data Systems Workshop (PDSW), Nov 2020.*
- [6] **On Failure Diagnosis of the Storage Stack**  
Duo Zhang, Om R. Gatla, Runzhou Han, Mai Zheng.  
*12th USENIX Workshop on Hot Topics in Storage and File Systems (HotStorage-P), 2020.*
- [7] **Sound-mediated stable configurations for polystyrene particles**  
Mudi Wang, Chunyin Qiu, Shenwei Zhang, Runzhou Han, Manzhu Ke, Zhengyou Liu.  
*Physical Review E, 2017.*

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## Employment

- Iowa State University**, Ames, IA *Sept.2019-now*
  - Research Assistant
  - Advisor: Dr. Mai Zheng
- Samsung**, Santa Clara, CA *May.2022-Aug.2022*
  - Research Scientist Intern
  - Advisor: Dr. Yong Chen
- Lawrence Berkeley National Laboratory**, Berkeley, CA *May.2021-Aug.2021*
  - PhD Research Intern
  - Advisor: Dr. Suren Byna
- George Washington University**, Washington, D.C. *Jun.2018-Aug.2018*
  - Voluntary Research Intern
  - Advisor: Dr. Howie Huang, Dr. Yuede Ji

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## Selected Awards

- Student Grant, ACM *HPDC 2022*. *July.2022*
- Student Grant, USENIX *FAST 2022*. *Feb.2022*
- Student Grant, USENIX *FAST 2020*. *Feb.2020*
- Wendell Miller Scholarship, Iowa State University. *Sept.2019*