

Jing Liu

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Education

Ph.D. Candidate, Computer Science 2016.9 – now
University of Wisconsin, Madison
Advisors: Prof. Andrea Arpaci-Dusseau & Prof. Remzi Arpaci-Dusseau

B.Eng., Software Engineering 2012.9 – 2016.6
Nanjing University
GPA: 4.56/5.0, Rank: 1/238
Thesis: *Depth-aware layered edge for elastic RGB-D object proposal*

Professional Experience

University of Wisconsin, Madison, WI 2017.6 – now
Research Assistant, Advisors: Prof. Andrea Arpaci-Dusseau & Prof. Remzi Arpaci-Dusseau

HEYSCALE: a project that aims to examine the scalability of distributed storage systems via emulation and rigorous analysis. We target the problems including, What are the key limitations on scale, and how to evaluate a particular system's ability to overcome these limitations?

University of Wisconsin, Madison, WI 2016.9 – 2017.6
Graduate Research Fellow, Advisors: Prof. Andrea Arpaci-Dusseau & Prof. Remzi Arpaci-Dusseau

MAAT: a project that aims to perform request scheduling within widely-used distributed storage systems like HBase/HDFS, Cassandra, Riak, etc. through identifying five fundamental problems that prevent a system from being schedulable. We introduce *Thread Architecture Diagrams (TADs)* to model and automatically detect the scheduling problems in existing systems.

State Key Laboratory for Novel Software Technology, Nanjing, China 2014.6 – 2016.5
Research Assistant, Advisor: Prof. Tongwei Ren

- Designed and implemented two novel algorithms to detect regions possibly containing class-independent objects in an image.
- Funded by the National Undergraduate Innovation Program of China. (~\$3,000)
- Presented the paper in *MMM16*, Miami, FL, 2016/01/05.

Nanjing University, Nanjing, China Spring 2016, Spring 2015
Teaching Assistant, Class: Operating System Design, Instructor: Prof. Bin Luo & Prof. Jidong Ge

Prepared the laboratory lectures and assignments for over 200 undergraduate students on the topic of task management, memory, file system, synchronization, etc.

Honors & Awards

Student Scholarship (SOSP-17), SIGOPS 2017.9
CS Summer Research Award, UW-Madison 2017.5
Graduate research fellowship, UW-Madison 2016 – 2017
Excellent Undergraduate Thesis in Jiangsu Province 2017.4

Excellent Graduate Student, Nanjing University	2016.6
National Outstanding Scholarship, Ministry of Education of China	2015, 2014
National Scholarship, Ministry of Education of China	2013
Tang Zhongying Moral Education Scholarship, Tang Zhongying Foundation	2012-2015

Publications

1. Suli Yang, **Jing Liu**, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. Principled Scheduling Analysis for Distributed Storage Systems using Thread Architecture Models In *Proceedings of the 13th Symposium on Operating System and Design Implementation (OSDI)*, CA, USA, 2018.
2. Ramnathan Alagappan, Aishwarya Ganesan, **Jing Liu**, Andrea Arpaci-Dusseau, and Remzi Arpaci-Dusseau. Fault-Tolerance, Fast and Slow: Exploiting Failure Asynchrony in Distributed Systems. In *Proceedings of the 13th Symposium on Operating System and Design Implementation (OSDI)*, CA, USA, 2018.
3. **Jing Liu**, Tongwei Ren, Yuantian Wang, Sheng-Hua Zhong, Jia Bei, and Shengchao Chen. Object proposal on RGB-D images via elastic edge boxes. in *Neurocomputing (NEUCOM)*, 236:134-146, May, 2017.
4. **Jing Liu**, Tongwei Ren, Bingkun Bao and Jia Bei. Depth-aware Layered Edge for Object Proposal. In *Proceedings of IEEE International Conference on Multimedia and Expo (ICME)*, Seattle, USA, 2016.
5. **Jing Liu**, Tongwei Ren and Jia Bei. Elastic Edge Boxes for Object Proposal on RGB-D images. In *Proceedings of International Conference on Multimedia Modeling (MMM)*, Miami, USA, 2016.

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