

Jing Liu

University of Wisconsin – Madison
Department of Computer Sciences
7354, 1210 W. Dayton St., WI, 53706

Email: jingliu@cs.wisc.edu
Homepage: <http://pages.cs.wisc.edu/~jingliu>

EDUCATION

Department of Computer Sciences, University of Wisconsin – Madison 2016 – now
Ph.D. Student
Advisors: Prof. Andrea Arpaci-Dusseau & Prof. Remzi Arpaci-Dusseau
Software Institute, Nanjing University 2012 – 2016
B.E. in Software Engineering Rank: 1/238
Thesis: *Depth-aware layered edge for elastic RGB-D object proposal*

REFEREED CONFERENCE PUBLICATIONS

- [1] **Jing Liu**, Anthony Rebello, Yifan Dai, Chenhao Ye, Sudarsun Kannan, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. *Scale and Performance in a Filesystem Semi-Microkernel*. In Proceedings of the 28th ACM Symposium on Operating Systems Principles (SOSP '21), Virtual Event, Germany, 2021.
- [2] Irene Zhang, Amanda Raybuck, Pratyush Patel, Kirk Olynyk, Jacob Nelson, Omar S. Navarro Leija, Ashlie Martinez, **Jing Liu**, Anna Kornfeld Simpson, Sujay Jayakar, Pedro Henrique Penna, Max Demoulin, Piali Choudhury, and Anirudh Badam. *The Demikernel Library OS Architecture for Microsecond, Kernel-Bypass Datacenter Systems*. In Proceedings of the 28th ACM Symposium on Operating Systems Principles (SOSP '21), Virtual Event, Germany, 2021.
- [3] Suli Yang, **Jing Liu**, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. *Principled Schedulability Analysis for Distributed Storage Systems using Thread Architecture Models*. In Proceedings of the 13th Symposium on Operating System and Design Implementation (OSDI '18), CA, USA, 2018.
- [4] Ramnatthan 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 '18), CA, USA, 2018.
- [5] **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 '16), Seattle, USA, 2016.
- [6] **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 '16), Miami, USA, 2016.

JOURNALS AND WORKSHOPS

- [1] Suli Yang, **Jing Liu**, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. *Principled Schedulability Analysis for Distributed Storage Systems using Thread Architecture Models*. In ACM Transactions on Storage (TOS), March, 2023.
- [2] **Jing Liu**, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Sudarsun Kannan. *File Systems as Processes*. In 11th USENIX Workshop on Hot Topics in Storage and File Systems (HotStorage '19), Renton, WA, 2019.
- [3] Irene Zhang, **Jing Liu**, Amanda Austin, Michael Lowell Roberts, and Anirudh Badam. *I'm Not Dead Yet! The Role of the Operating System in a Kernel-Bypass Era*. In Workshop on Hot Topics in Operating Systems (HotOS '19), Bertinoro, Italy, 2019.
- [4] **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.

HONORS AND AWARDS

| | |
|--|--------------|
| Meta PhD Research Fellowship, Meta Inc. | 2022 |
| Student Travel Grant (SOSP '17, OSDI '18, and OSDI '22) | 2017, 18, 22 |
| CS Summer Research Award, UW-Madison | 2017 |
| Graduate Research Fellowship, UW-Madison | 2016 – 2017 |
| Outstanding Graduate, Nanjing University | 2016 |
| Departmental Best Undergraduate Thesis, University Highest Honor | 2016 |
| Outstanding National Undergraduate Innovation Project (Role: Lead, Grant: ~3000\$) | 2016 |
| National Encouraging Scholarship, Ministry of Education of China | 2014, 2015 |
| National Scholarship, Ministry of Education of China | 2013 |

TEACHING EXPERIENCE

| | |
|---|--------------------------|
| Computer Sciences Department of UW–Madison, WI <i>Instructor</i> Class: Introduction to Operating Systems. | Summer 2023 |
| Computer Sciences Department of UW–Madison, WI <i>Teaching Assistant</i> Class: Distributed Systems. Instructor: Prof. Andrea Arpaci-Dusseau | Spring 2022, Spring 2023 |
| Computer Sciences Department of UW–Madison, WI <i>Teaching Assistant</i> Class: Advanced Operating System. Instructor: Prof. Andrea Arpaci-Dusseau | Spring 2018 |
| Software Institute of Nanjing University, Nanjing, China <i>Teaching Assistant, and Head Teaching Assistant</i> Class: Computer Operating System. Instructors: Prof. Bin Luo & Prof. Jidong Ge | Spring 2015, Spring 2016 |

INDUSTRY EXPERIENCE

| | |
|--|-------------|
| Google, Madison, WI <i>Software Engineering Intern</i> Mentor: Dr. Marc De Kruijf | Summer 2019 |
| Microsoft Research, Redmond, WA <i>Research Intern</i> Mentor: Dr. Irene Zhang | Summer 2018 |

SERVICE

| | |
|---|-----------------------|
| ATC/OSDI Artifact Evaluation Committee | 2022 |
| Topic (OS & Emerging Hardware) Moderator, SOSP '21 Diversity Workshop | Oct. 2021 |
| President, W-ACM, UW Madison Chapter of ACM's Women in Computing | Aug. 2021 – Aug. 2022 |
| FAST External Reviewer | 2018 |

PRESENTATIONS AND INVITED TALKS

| | |
|--|-----------|
| Scale and Performance in a Filesystem Semi-Microkernel. Invited talk at UIUC, Champaign, IL. | Oct. 2022 |
| Invited talk at ENS de Lyon – France, virtual. | Mar. 2022 |
| Invited talk at Samsung MSL Tech Talk, virtual. | June 2021 |
| Talk at SOSP '21, virtual. | Oct. 2021 |

File Systems as Processes.

Talk at HotStorage '19, Renton, WA.

July 2019

Elastic Edge Boxes for Object Proposal on RGB-D Images.

Talk at MMM '16, Miami, MI.

Jan. 2016