

# Yue Cheng

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## Research Interests

**Distributed systems, cloud computing, serverless computing, high-performance computing, storage systems, operating systems, data compression, machine learning (ML) systems**

The overarching goal of my research is to enable practical, efficient, and easy-to-use computer systems for the growing data demands of modern high-end applications running on existing as well as emerging computing platforms. My current research focuses on: (1) designing efficient stateful serverless computing systems using a full-stack approach spanning application frameworks, platforms, operating systems, and hardware; (2) building scalable and efficient data-intensive computing systems (e.g., ML systems) and (3) utilizing ML approaches to improve the computing and storage systems.

## Professional Experience and Employment

- 08/2023–present **Associate Professor**, *University of Virginia*, Charlottesville, VA.  
School of Data Science and SEAS Department of Computer Science
- 08/2022–08/2023 **Assistant Professor**, *University of Virginia*, Charlottesville, VA.  
School of Data Science and SEAS Department of Computer Science
- 08/2017–08/2022 **Assistant Professor**, *George Mason University*, Fairfax, VA.  
Department of Computer Science
- 2011–2017 **Research/Teaching Assistant**, *Virginia Tech*, Blacksburg, VA.  
Department of Computer Science
- 06/2015–12/2015 **Research Intern**, *EMC*, Princeton, NJ.  
Offline flash caching
- 05/2014–08/2014 **Research Intern**, *IBM Research–Almaden*, San Jose, CA.  
Cloud analytics storage tiering
- 05/2013–08/2013 **Research Intern**, *IBM Research–Almaden*, San Jose, CA.  
Load balanced in-memory caching

## Education

- 2011–2017 **Virginia Polytechnic Institute and State University (Virginia Tech)**, *Blacksburg, VA*.  
Ph.D. in Computer Science
- 2005–2009 **Beijing University of Posts and Telecommunications (BUPT)**, *Beijing, China*.  
B.Eng. in Computer Science

## Honors & Awards

- 2024 **Outstanding Researcher Award**, for achievements in research at the University of Virginia
- 2023 **Outstanding Researcher Award**, for achievements in research at the University of Virginia
- 2023 **Samsung Global Research Outreach Award**, Samsung Advanced Institute of Technology and Samsung Memory Solutions Lab
- 2022 **IEEE CS TCHPC Early Career Researchers Award for Excellence in High Performance Computing** (*One of the most prestigious awards for junior researchers in HPC*)

- 2022 **Meta Research Award** of the Meta AI System Hardware/Software Codesign Competition
- 2022 **Best Student Paper Award Finalist** of The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC 2022): *5 out of 81 accepted papers*
- 2022 **Outstanding Teacher Award** of the Computer Science Department at George Mason University
- 2022 **Award Finalist** of Facebook (Meta) Mathematical Modeling & Optimization for Large-Scale Distributed Systems Award Competition
- 2021 **NSF CAREER Award** for the project titled “CAREER: Harnessing Serverless Functions to Build Highly Elastic Cloud Storage Infrastructure”
- 2020 **Amazon Research Award** for the project titled “Distributed Large-scale Graph Deep Learning by Gradient-free Optimization”
- 2012–2015 **Student Travel Grant:** USENIX ATC’16, ACM HPDC’15, EuroSys’15, USENIX OSDI’14, USENIX FAST’14, ACM SoCC’13, USENIX OSDI’12
- 2014 **Pratt Fellowship (Best Teaching Assistant Award)** awarded by Computer Science at Virginia Tech
- 2006–2009 **University Scholarship** awarded by Beijing University of Posts and Telecommunications, China

## Publication

★: Tier-1 venue.

<b>Systems</b>	NSDI’26, ASPLOS’26, IMC’25, ASPLOS’25, ATC’24, SIGMETRICS’24, SoCC’24, ASPLOS’23, FAST’23, FAST’20, FAST’18, ATC’21, ATC’16, SoCC’21, SoCC’20, EuroSys’15
<b>HPC</b>	SC’22, SC’21, SC’18, HPDC’20, HPDC’16, HPDC’15
<b>DB, ML, Web</b>	WWW’25, VLDB’24 ×2, VLDB’23

Number of [csrankings.org](https://csrankings.org) publications: 16 (+ 7)

A: Students for whom I serve as the advisor; M: Students I mentor.

## Refereed Conferences and Workshops

- [NSDI ’26]★ **ZipLLM: Efficient LLM Storage via Model-Aware Synergistic Data Deduplication and Compression.**  
 23<sup>rd</sup> USENIX Symposium on Networked Systems Design and Implementation (*NSDI’26*), (To appear. AR: 50/207 = 24.2%).  
 Zirui Wang<sup>A</sup>, Tingfeng Lan<sup>A</sup>, Zhaoyuan Su<sup>A</sup>, Juncheng Yang, **Yue Cheng**.
- [ASPLOS ’26]★ **NotebookOS: A Replicated Notebook Platform for Interactive Training with On-Demand GPUs.**  
 ACM Conference on Architectural Support for Programming Languages and Operating Systems (*ASPLOS’26*), (To appear. AR: 20/208 = 9.6%).  
 Benjamin Carver<sup>A</sup>, Jingyuan Zhang<sup>A</sup>, Haoliang Wang, Kanak Mahadik, **Yue Cheng**.
- [IMC ’25]★ **The Decentralization Dilemma: Performance Trade-Offs in IPFS and Breakpoints.**  
 The ACM Internet Measurement Conference (*IMC’25*), (*To appear*).  
 Ruizhe Shi<sup>M</sup>, Yuqi Fu<sup>A</sup>, Ruizhi Cheng, Bo Han, **Yue Cheng**, Songqing Chen.
- [WWW ’25]★ **Centralization in Decentralized Web: Challenges and Opportunities in IPFS Data Management.**  
 The 2025 ACM Web Conference (*TheWebConf’25*), (AR: 409/2062 = 19.8%).  
 Ruizhe Shi<sup>M</sup>, Ruizhi Cheng, Yuqi Fu<sup>A</sup>, Bo Han, **Yue Cheng**, Songqing Chen.

- [ASPLOS '25]★ **Concurrency-Informed Orchestration for Serverless Functions.**  
ACM Conference on Architectural Support for Programming Languages and Operating Systems (**ASPLOS'25**), (AR: 160/912 = 17.5%).  
Qichang Liu<sup>M</sup>, **Yue Cheng**, Haiying Shen, Ao Wang, Bharathan Balaji.
- [SDM '25] **Staleness-Alleviated Distributed GNN Training via Online Dynamic-Embedding Prediction.**  
SIAM International Conference on Data Mining (**SDM'25**), (AR: 61/228 = 26.7%, to appear).  
Guangji Bai, Ziyang Yu, Zheng Chai<sup>A</sup>, **Yue Cheng**, Liang Zhao.
- [SoCC '24]★ **FedCaSe: Enhancing Federated Learning with Heterogeneity-aware Caching and Scheduling.**  
ACM Symposium on Cloud Computing (**SoCC'24**), (AR: 63/209 = 30.1%).  
Redwan Ibne Seraj Khan<sup>M</sup>, Arnab K. Paul, **Yue Cheng**, Xun Jian, Ali R. Butt.
- [VLDB '24]★ **Everything You Always Wanted to Know About Storage Compressibility of Pre-Trained ML Models but Were Afraid to Ask.**  
50<sup>th</sup> International Conference on Very Large Data Bases (**VLDB'24**).  
Zhaoyuan Su<sup>A</sup>, Ammar Ahmed, Zirui Wang<sup>A</sup>, Ali Anwar, **Yue Cheng**.
- [VLDB '24]★ **Algorithmic Complexity Attacks for Dynamic Learned Indexes.**  
50<sup>th</sup> International Conference on Very Large Data Bases (**VLDB'24**).  
Rui Yang<sup>A</sup>, Evgenios M. Kornaropoulos, **Yue Cheng**.
- [ATC '24]★ **ALPS: An Adaptive Learning, Priority OS Scheduler for Serverless Functions.**  
2024 USENIX Annual Technical Conference (**ATC'24**), (AR: 77/488 = 15.8%).  
Yuqi Fu<sup>A</sup>, Ruizhe Shi<sup>M</sup>, Haoliang Wang, Songqing Chen, **Yue Cheng**.
- [SIGMETRICS '24]★ **A Closer Look into IPFS: Accessibility, Content, and Performance.**  
ACM SIGMETRICS / IFIP Performance (**SIGMETRICS'24**), (AR: 54/338 = 16%).  
Ruizhe Shi<sup>M</sup>, Ruizhi Cheng, Bo Han, **Yue Cheng**, Songqing Chen.
- [ASPLOS '23]★ **λFS: A Scalable and Elastic Distributed File System Metadata Service using Serverless Functions.**  
ACM Conference on Architectural Support for Programming Languages and Operating Systems (**ASPLOS'23**), (AR: 151/600 = 25.2%).  
Benjamin Carver<sup>A</sup>, Runzhou Han, Jingyuan Zhang<sup>A</sup>, Mai Zheng, **Yue Cheng**.
- [VLDB '23]★ **InfiniStore: Elastic Serverless Cloud Storage.**  
49<sup>th</sup> International Conference on Very Large Data Bases (**VLDB'23**).  
Jingyuan Zhang<sup>A</sup>, Ao Wang<sup>A</sup>, Xiaolong Ma, Benjamin Carver<sup>A</sup>, Nicholas John Newman<sup>A</sup>, Ali Anwar, Vasily Tarasov, Lukas Rupperecht, Dimitrios Skourtis, Feng Yan, **Yue Cheng**.
- [FAST '23]★ **SHADE: Enable Fundamental Cacheability for Distributed Deep Learning Training.**  
USENIX Conference on File and Storage Techniques (**FAST'23**), (AR: 28/123 = 22.8%).  
Redwan Ibne Seraj Khan<sup>M</sup>, Ahmad Hossein Yazdani<sup>M</sup>, Yuqi Fu<sup>A</sup>, Arnab K. Paul, Bo Ji, Xun Jian, **Yue Cheng**, Ali R. Butt.
- [SC '22]★ **SFS: Smarter OS Scheduling for Serverless Functions.**  
The International Conference for High Performance Computing, Networking, Storage, and Analysis (**SC'22** – **Best Student Paper Award Finalist**), (AR: 81/320 = 25.3%).  
Yuqi Fu<sup>A</sup>, Li Liu<sup>M</sup>, Haoliang Wang, **Yue Cheng**, Songqing Chen.
- [SoCC '21]★ **Mind the Gap: Broken Promises of CPU Reservations in Containerized Multi-tenant Clouds.**  
ACM Symposium on Cloud Computing (**SoCC'21**), (AR: 46/145 = 31.7%).  
Li Liu<sup>M</sup>, Haoliang Wang, An Wang, Mengbai Xiao, **Yue Cheng**, Songqing Chen.

- [SC '21]★ **FedAT: A High-Performance and Communication-Efficient Federated Learning System with Asynchronous Tiers.**  
The International Conference on High Performance Computing, Networking, Storage, and Analysis (**SC'21**), (AR: 86/365 = 23.6%).  
Zheng Chai<sup>A</sup>, Yujing Chen, Ali Anwar, Liang Zhao, **Yue Cheng**, Huzefa Rangwala.
- [ATC '21]★ **FaaSNet: Scalable and Fast Provisioning of Custom Serverless Container Runtimes at Alibaba Cloud Function Compute.**  
2021 USENIX Annual Technical Conference (**ATC'21**), (AR: 64/341 = 18.8%).  
Ao Wang<sup>A</sup>, Shuai Chang, Huangshi Tian, Hongqi Wang, Haoran Yang, Huiba Li, Rui Du, **Yue Cheng**.
- [OPT '21] **Community-based Layerwise Distributed Training of Graph Convolutional Networks.**  
NeurIPS 2021 Workshop on Optimization for Machine Learning (**OPT'21**).  
Hongyi Li, Junxiang Wang, Yongchao Wang, **Yue Cheng**, Liang Zhao.
- [ICDM '20] **Toward Model Parallelism for Deep Neural Network based on Gradient-free ADMM Framework.**  
20<sup>th</sup> IEEE International Conference on Data Mining (**ICDM'20**), (AR: 91/930 = 9.8%).  
Junxiang Wang, Zheng Chai<sup>A</sup>, **Yue Cheng**, Liang Zhao.
- [SoCC '20]★ **Wukong: A Scalable and Locality-Enhanced Framework for Serverless Parallel Computing.**  
ACM Symposium on Cloud Computing (**SoCC'20**), (AR: 35/143 = 24.5%).  
Benjamin Carver<sup>A</sup>, Jingyuan Zhang<sup>A</sup>, Ao Wang<sup>A</sup>, Ali Anwar, Panruo Wu, **Yue Cheng**.
- [ICML WS '20] **Tunable Subnetwork Splitting for Model-parallelism of Neural Network Training.**  
ICML 2020 Workshop on Beyond First-Order Methods in ML systems (**ICML WS'20**).  
Junxiang Wang, Zheng Chai<sup>A</sup>, **Yue Cheng**, Liang Zhao.
- [HPDC '20]★ **TiFL: A Tier-based Federated Learning System.**  
ACM Symposium on High-Performance Parallel and Distributed Computing (**HPDC'20**), (AR: 16/71 = 22.5%).  
Zheng Chai<sup>A</sup>, Ahsan Ali, Syed Zawad, Ali Anwar, Stacey Truex, Nathalie Baracaldo, Yi Zhou, Heiko Ludwig, Feng Yan, **Yue Cheng**.
- [FAST '20]★ **InfiniCache: Exploiting Ephemeral Serverless Functions to Build a Cost-Effective Memory Cache.**  
USENIX Conference on File and Storage Techniques (**FAST'20**), (AR: 23/138 = 16.7%).  
Ao Wang<sup>A\*</sup>, Jingyuan Zhang<sup>A\*</sup>, Xiaolong Ma, Ali Anwar, Vasily Tarasov, Lukas Rupprecht, Dimitrios Skourtis, Feng Yan, **Yue Cheng**.  
\*: co-first authors
- [PDSW '19] **In Search of a Fast and Efficient Serverless DAG Engine.**  
The 4<sup>th</sup> International Parallel Data Systems Workshop (**PDSW'19**).  
Benjamin Carver<sup>A</sup>, Jingyuan Zhang<sup>A</sup>, Ao Wang<sup>A</sup>, **Yue Cheng**.
- [Cloud '19] **Bolt: Towards a Scalable Docker Registry.**  
The IEEE International Conference on Cloud Computing (**Cloud'19**), (AR: 20.8%).  
Michael Littley, Ali Anwar, Hannan Fayyaz<sup>M</sup>, Zeshan Fayyaz<sup>M</sup>, Vasily Tarasov, Lukas Rupprecht, Dimitrios Skourtis, Mohamed Mohamed, Heiko Ludwig, **Yue Cheng**, Ali R. Butt.
- [OpML '19] **Towards Taming the Resource and Data Heterogeneity in Federated Learning.**  
2019 USENIX Conference on Operational Machine Learning (**OpML'19**), (AR: 16/30 = 53.3%).  
Zheng Chai<sup>A</sup>, Hannan Fayyaz<sup>M</sup>, Zeshan Fayyaz<sup>M</sup>, Ali Anwar, Yi Zhou, Nathalie Baracaldo, Heiko Ludwig, **Yue Cheng**.
- [VEE '19] **vCPU as a Container: Towards Accurate CPU Allocation for VMs.**  
The 15<sup>th</sup> ACM SIGPLAN/SIGOPS International Conference on Virtual Execution Environments (**VEE'19**), (AR: 15/33 = 45.5%).  
Li Liu<sup>M</sup>, Haoliang Wang, An Wang, Mengbai Xiao, **Yue Cheng**, Songqing Chen.

- [BigData '18] **Analyzing Alibaba's Co-located Datacenter Workloads.**  
IEEE International Conference on Big Data (*BigData'18*), (AR: 38.8%).  
**Yue Cheng**, Ali Anwar, Xuejing Duan.
- [SC '18]★ **BespoKV: Application Tailored Scale-Out Key-Value Stores.**  
The International Conference for High Performance Computing, Networking, Storage, and Analysis (*SC'18*), (AR: 68/288 = 23.6%).  
Ali Anwar, **Yue Cheng**, Hai Huang, Jingoo Han, Hyogi Sim, Dongyoon Lee, Fred Douglass, and Ali R. Butt.
- [APSys '18] **Characterizing Co-located Datacenter Workloads: An Alibaba Case Study.**  
The 9<sup>th</sup> ACM SIGOPS Asia-Pacific Workshop on Systems (*APSys'18*), (AR: 21/50 = 42%).  
**Yue Cheng**, Zheng Chai\*, Ali Anwar.
- [IPDPS '18] **Chameleon: An Adaptive Wear Balancer for Flash Clusters.**  
IEEE International Parallel & Distributed Processing Symposium (*IPDPS'18*), (AR: 113/461 = 24.5%).  
Nannan Zhao, Ali Anwar, **Yue Cheng**, Mohammed Salman, Daping Li, Jiguang Wan, Changsheng Xie, Xubin He, Feiyi Wang, and Ali R. Butt.
- [FAST '18]★ **Improving Docker Registry Design based on Production Workload Analysis.**  
USENIX Conference on File and Storage Techniques (*FAST'18*), (AR: 23/140 = 16.4%).  
Ali Anwar, Mohamed Mohamed, Vasily Tarasov, Michael Little, Lukas Rupprecht, **Yue Cheng**, Nannan Zhao, Dimitrios Skourtis, Amit S. Warke, Heiko Ludwig, Dean Hildebrand, Ali R. Butt.
- [ATC '16]★ **Erasing Belady's Limitations: In Search of Flash Cache Offline Optimality.**  
The 2016 USENIX Annual Technical Conference (*ATC'16*), (AR: 47/266 = 17.7%).  
**Yue Cheng**, Fred Douglass, Philip Shilane, Michael Trachtman, Grant Wallace, Peter Desnoyers, and Kai Li.
- [HotStorage '16] **ClusterOn: Building Highly Configurable and Reusable Clustered Data Services using Simple Data Nodes.**  
The 8<sup>th</sup> USENIX Workshop on Hot Topics in Storage and File Systems (*HotStorage'16*), (AR: 24/65 = 36.9%).  
Ali Anwar, **Yue Cheng**, Hai Huang, and Ali R. Butt.
- [HPDC '16]★ **MOS: Workload-aware Elasticity for Cloud Object Stores.**  
The 25<sup>th</sup> ACM Symposium on High-Performance Parallel and Distributed Computing (*HPDC'16*), (AR: 20/129 = 15.5%).  
Ali Anwar, **Yue Cheng**, Aayush Gupta, and Ali R. Butt.
- [VarSys '16] **Towards Managing Variability in the Cloud.**  
The 1<sup>st</sup> IEEE International Workshop on Variability in Parallel and Distributed Systems (*VarSys'16*).  
Ali Anwar, **Yue Cheng**, and Ali R. Butt.
- [PDSW '15] **Taming the Cloud Object Stores with MOS.**  
The 10<sup>th</sup> ACM Parallel Data Storage Workshop (*PDSW'15*), (AR: 9/25 = 36%).  
Ali Anwar, **Yue Cheng**, Aayush Gupta, and Ali R. Butt.
- [HotCloud '15] **Pricing Games for Hybrid Object Stores in the Cloud: Provider vs. Tenant.**  
The 7<sup>th</sup> USENIX Workshop on Hot Topics in Cloud Computing (*HotCloud'15*), (AR: 21/64 = 32.8%).  
**Yue Cheng**, M. Safdar Iqbal, Aayush Gupta, and Ali R. Butt.
- [HPDC '15]★ **Cast: Tiering Storage for Data Analytics in the Cloud.**  
The 24<sup>th</sup> ACM Symposium on High-Performance Parallel and Distributed Computing (*HPDC'15*), (AR: 19/116 = 16.4%).  
**Yue Cheng**, M. Safdar Iqbal, Aayush Gupta, and Ali R. Butt.

- [EuroSys '15]★ **An In-Memory Object Caching Framework with Adaptive Load Balancing.**  
The 10<sup>th</sup> ACM European Conference on Computer Systems (*EuroSys'15*), (AR: 32/154 = 20.8%).

**Yue Cheng**, Aayush Gupta, and Ali R. Butt.

### Technical Reports

- [VT technical report] **MOANA: Modeling and Analyzing I/O Variability in Parallel System Experimental Design.**  
Kirk Cameron, Ali Anwar, **Yue Cheng**, Li Xu, Bo Li, Uday Ananth, Yili Hong, Layne T. Watson, and Ali R. Butt.

### Posters and Demos

- [NSDI '19] **HyperFaaS: A Truly Elastic Serverless Computing Framework.**  
USENIX Symposium on Networked Systems Design and Implementation (*NSDI'19*), (Poster).  
Jingyuan Zhang\*, Ao Wang\*, Min Li, Yuan Chen, **Yue Cheng**.

- [APSys '15] **Taming the Cloud Object Stores with MOS.**  
The 6<sup>th</sup> ACM SIGOPS Asia-Pacific Workshop on Systems (*APSys'15*), (Poster).  
Ali Anwar, **Yue Cheng**, Aayush Gupta, and Ali R. Butt.

- [SoCC '13] **High Performance In-Memory Caching through Flexible Fine-Grained Services.**  
2013 ACM Symposium on Cloud Computing (*SoCC'13*), (Poster).  
**Yue Cheng**, Aayush Gupta, Anna Povzner, and Ali R. Butt.

### Book Chapters

- [Book chapter] **SDN helps Big Data to optimize storage.**  
Big Data and Software Defined Networks, editor: Javid Taheri. IET, ISBN 978-1-78561-304-3. 2018.  
Ali R. Butt, Ali Anwar, and **Yue Cheng**.

### Refereed Journals

- [ACM CSUR] **Beyond Efficiency: A Systematic Survey of Resource-Efficient Large Language Models.**  
ACM Computing Surveys (*ACM CSUR*) (*Under revision*).  
Guangji Bai, Zheng Chai, Chen Ling, Shiyu Wang, Jiaying Lu, Nan Zhang, Tingwei Shi, Ziyang Yu, Mengdan Zhu, Yifei Zhang, Carl Yang, **Yue Cheng**, Liang Zhao.
- [TNNLS] **Community-based Distributed Training of Graph Convolutional Networks via ADMM.**  
IEEE Transactions on Neural Networks and Learning Systems (*TNNLS*) (*Under review*).  
Hongyi Li, Junxiang Wang, Yongchao Wang, **Yue Cheng**, Liang Zhao.
- [TNNLS] **Towards Quantized Model Parallelism for Graph-Augmented MLPs Based on Gradient-Free ADMM Framework.**  
IEEE Transactions on Neural Networks and Learning Systems (*TNNLS*).  
Junxiang Wang, Hongyi Li, Zheng Chai, Yongchao Wang, **Yue Cheng**, Liang Zhao.
- [TPDS] **Customizable Scale-Out Key-Value Stores.**  
IEEE Transactions on Parallel and Distributed Systems (*TPDS*), Volume: 31, Issue: 9, Pages: 2081-2096, Apr. 25 2020, (Impact Factor = 3.402).  
Ali Anwar, **Yue Cheng**, Hai Huang, Jingoo Han, Hyogi Sim, Dongyoon Lee, Fred Douglass, Ali R. Butt.
- [TPDS] **MOANA: Modeling and Analyzing I/O Variability in Parallel System Experimental Design.**  
IEEE Transactions on Parallel and Distributed Systems (*TPDS*), Volume: 30, Issue: 8, Pages: 1843-1856, Aug. 1 2019, (Impact Factor = 3.402).  
Kirk Cameron, Ali Anwar, **Yue Cheng**, Li Xu, Bo Li, Uday Ananth, Yili Hong, Layne T. Watson, and Ali R. Butt.



[Internet Computing] **Provider versus Tenant Pricing Games for Hybrid Object Stores in the Cloud.**  
IEEE Internet Computing's special issue on Cloud Storage: May/June 2016, Pages: 28-35, vol. 20.  
**Yue Cheng**, M. Safdar Iqbal, Aayush Gupta, and Ali R. Butt.

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## Research Funding

**8 NSF grants, 8 industry awards/gifts (Samsung, Adobe, Meta, and Amazon), 1 4-VA initiatives project, 7 time allocation cloud credit awards, and 1 hardware donation.**  
**Total funding amount: around \$5.9 M; Total personal share: around \$2.4 M.**

- NSF: OAC-2411009 **"Elements: A Sustainable, Resource-Efficient Cyberinfrastructure for Notebook Interactive ML Training Workloads"**. Grant amount: \$600,000; My personal share: \$300,000 (50% share); PI: Yue Cheng (UVA); Co-PI: Geoffrey Fox (UVA); Duration: 09/15/2024–8/31/2027.
- NSF: OAC-2403313 **"Collaborative Research: OAC Core: Distributed Graph Learning Cyberinfrastructure for Large-scale Spatiotemporal Prediction"**. Grant amount: \$599,547; My personal share: \$299,973 (50% share); PI: Yue Cheng (UVA); Duration: 10/01/2024–9/30/2027.
- NSF: SMA-2349503 **"REU Site: The Data Justice Academy"**. Grant amount: \$481,232; PI: Claudia Scholz (UVA); Co-PI: Yue Cheng (UVA); Duration: 09/01/2024–8/31/2027.
- Samsung GRO **"Highly Efficient Pre-Trained LLM Storage with Near-Storage Compression and CXL Memory Integration"**. Total: \$250,000; My personal share: \$125,000; Role: PI: Yue Cheng (UVA), Co-PI: Ali Anwar (UMN); Duration: 04/2024–09/2025.
- Adobe Gift **"Serverless GPU and Storage Management for Large-scale, Interactive Machine Learning Training Workloads"**. Total: \$25,000; My personal share: \$25,000; Role: PI: Yue Cheng (UVA); Duration: 02/2024–present.
- Adobe Gift **"Serverless GPU and Storage Management for Large-scale, Interactive Machine Learning Training Workloads"**. Total: \$20,000; My personal share: \$20,000; Role: PI: Yue Cheng (UVA); Duration: 06/2023–present.
- 4-VA Collaborative Grant **"Near-Data Processing for Machine Learning Workloads Acceleration"**. Total: \$35,000; My personal share: \$5,000; Role: PI: Huaicheng Li (VT); Co-PI: Yue Cheng (UVA); Duration: 05/2023–present.
- Meta Research Awards **"Serverless and Scalable GNN Training with Disaggregated Compute and Storage"**. Total: \$50,000; Role: PI: Yue Cheng (UVA); Co-PI: Liang Zhao (Emory); Duration: 09/2022–08/2023.
- Hardware **Western Digital Zoned Namespaces SSDs**. Two 4TB Western Digital ZN540 SSDs; Role: PI: Yue Cheng (UVA).
- Adobe Gift **"Serverless GPU and Storage Management for Large-scale, Interactive Machine Learning Training Workloads"**. Total: \$30,000; My personal share: \$30,000; Role: PI: Yue Cheng (UVA); Duration: 05/2022–present.
- Adobe Gift **"Serverless GPU and Storage Management for Large-scale, Interactive Machine Learning Training Workloads"**. Total: \$10,000; My personal share: \$10,000; PI: Yue Cheng (UVA); Duration: 09/2021–present.
- NSF: CMMI-2134689 **"FMSG: Cyber: Federated Deep Learning for Future Ubiquitous Distributed Additive Manufacturing"**. Grant amount: \$498,762; My personal share: \$189,949 (38% share); PI: Jia Liu (Auburn); Co-PI: Yue Cheng (UVA); Duration: 10/01/2021–9/30/2023.
- Adobe Gift **"Achieving Predictable Performance for FaaS Workloads via OS-Transparent Serverless Function Scheduling"**. Total: \$10,000; My personal share: \$10,000; PI: Yue Cheng (UVA); Duration: 03/2021–present.
- NSF: CNS-2045680 **"CAREER: Harnessing Serverless Functions to Build Highly Elastic Cloud Storage Infrastructure"**. Grant amount: \$572,897 + \$16,000 REU; My personal share: \$572,897 + \$16,000 REU (100% share); PI: Yue Cheng (UVA); Duration: 02/15/2021–02/14/2026.

- Amazon Research Award **“Distributed Large-scale Graph Deep Learning by Gradient-free Optimization”**. Grant amount: \$75,000; My personal share: \$37,500; PI: Liang Zhao (Emory); Co-PI: Yue Cheng (UVA); Duration: 11/01/2020–10/31/2022.
- NSF: MRI-2018631 **“MRI: Acquisition of an Adaptive Computing Infrastructure to Support Compute- and Data-Intensive Multidisciplinary Research”**. Grant amount: \$750,000; PI: Elise Miller-Hooks (GMU); Co-PIs: Jayshree Sarma, Yue Cheng, Shobita Satyapal, Maria Emelianenko (GMU); Involved in designing Hopper, GMU’s next-generation on-campus HPC Infrastructure; Duration: 08/01/2020–7/31/2023.
- NSF: OAC-2007976 **“OAC Core: SMALL: DeepJIMU: Model-Parallelism Infrastructure for Large-scale Deep Learning by Gradient-Free Optimization”**. Grant amount: \$498,609; My personal share: \$249,302 (50% share); PI: Liang Zhao (Emory); Co-PI: Yue Cheng (UVA); Duration: 10/01/2020–9/30/2023.
- NSF: CCF-1919075 **“SPX: Collaborative Research: Cross-stack Memory Optimizations for Boosting I/O Performance of Deep Learning HPC Applications”**. Grant amount: \$1,273,487; UVA share: \$320,603 (25% share); Role: PI: Yue Cheng (UVA); Duration: 10/01/2019–9/30/2023.

### Time Allocation Grants

- NSF CloudBank **“CAREER: Harnessing Serverless Functions to Build Highly Elastic Cloud Storage Infrastructure”**. Total: \$44,827 AWS credit; PI: Yue Cheng (UVA); Duration: 07/21/2022–06/30/2024.
- Google Cloud Platform **“Towards a GPU-efficient Serverless Notebook Platform”**. Total: \$5,000; PI: Yue Cheng (UVA); Duration: 01/08/2024–01/07/2025.
- IBM Cloud **“InfiniStore: Elastic Serverless Cloud Storage”**. Total: \$4,000; PI: Yue Cheng (UVA); Duration: 12/30/2020–12/29/2021.
- Google Cloud Platform **“Building a Purely Serverless Parallel Computing Framework”**. Total: \$5,000; PI: Yue Cheng (UVA); Duration: 08/10/2020–08/09/2021.
- Amazon Web Services **“LambDAG: A Lambda-aware DAG Engine”**. Total: \$36,000; PI: Yue Cheng (UVA); Duration: 10/01/2019–10/31/2020.
- Google Cloud Platform **“Building a Generic Serverless DAG Engine”**. Total: \$10,000; PI: Yue Cheng (UVA); Duration: 08/20/2019–02/19/2020.
- Google Cloud Platform **“Towards Serverless Computational Science”**. Total: \$5,000; PI: Yue Cheng (UVA); Duration: 10/01/2018–07/31/2019.
- Amazon Web Services **“Building a Virtual Serverless Cloud OS”**. Total: \$36,000; PI: Yue Cheng (UVA); Duration: 08/01/2018–07/31/2019.

## Talks

- 2025 **Concurrency-informed Serverless Function Orchestration**  
Conference talk: ACM Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS 2025), Rotterdam, The Netherlands (04/2025)
- 2025 **Flex: Fast, Accurate DNN Inference on Low-Cost Edges Using Heterogeneous Accelerator Execution**  
Conference talk: ACM European Conference on Computer Systems (EuroSys 2025), Rotterdam, The Netherlands (04/2025)
- 2024 **Everything You Always Wanted to Know About Storage Compressibility of Pre-Trained ML Models but Were Afraid to Ask**  
Conference talk: 50<sup>th</sup> International Conference on Very Large Data Bases (VLDB 2024), Guangzhou, China (08/2024)



- 2024 **Algorithmic Complexity Attacks on Dynamic Learned Indexes**  
Conference talk: 50<sup>th</sup> International Conference on Very Large Data Bases (VLDB 2024), Guangzhou, China (08/2024)
- 2024 **Stateful Computing in a Serverless Way**  
Invited talk: McDaniel College, MD (05/2024)
- 2023 **SHADE: Enable Fundamental Cacheability for Distributed Deep Learning Training**  
Invited talk: The GenAI and ML Systems Efficiency Workshop, Adobe Research, virtual (10/2023)
- 2023 **Stateful Computing in a Serverless Way**  
Invited talk: The University of Edinburgh, Scotland, virtual (04/2023)
- 2022 **Computing in a Serverless Way for Fun and Profit**  
Invited talk: Virginia Tech Northern Virginia Center, Falls Church, VA (10/2022)
- 2022 **Scaling Data Analytics on Serverless Clouds**  
Invited talk: McDaniel College, MD (03/2022)
- 2018 **Analyzing Alibaba's Co-located Datacenter Workloads**  
Conference talk: IEEE BigData 2018, Seattle, WA (12/2018)
- 2018 **The hardware, they are a-changin**  
Breakout summary talk: Workshop on Data Storage Research 2025, San Jose, CA (05/2018)
- 2018 **Breaking the Monolith: Rethinking Storage System Design**  
Invited talk: Virginia Tech Northern Virginia Center, Falls Church, VA (03/2018)
- 2018 **Erasing Belady's Limitations: In Search of Flash Cache Offline Optimality**  
Invited talk: HPDC'18 TPC Workshop, Berkeley, CA (03/2018)
- 2017 **Breaking the Monolith: Rethinking Storage System Design**  
George Mason University, Fairfax, VA (11/2017)  
George Mason University, Fairfax, VA (04/2017)
- 2016 **Erasing Belady's Limitations: In Search of Flash Cache Offline Optimality**  
Conference talk: USENIX ATC'16, Denver, CO (06/2016)  
Internship talk: The CTO Office of EMC CTD, Princeton, NJ (06/2016)
- 2015 **Pricing Games for Hybrid Object Stores in the Cloud: Provider vs. Tenant**  
Conference talk: USENIX HotCloud'15, Santa Clara, CA (06/2015)  
The CTO Office of EMC CTD, Princeton, NJ (05/2015)
- 2015 **CAST: Tiering Storage for Data Analytics in the Cloud**  
Conference talk: ACM HPDC'15, Portland, OR (06/2015)
- 2015 **An In-Memory Object Caching Framework with Adaptive Load Balancing**  
Conference talk: ACM EuroSys'15, Bordeaux, France (04/2015)
- 2014 **An In-Memory Object Caching Framework with Adaptive Load Balancing**  
Internship talk: IBM Almaden Research Center, San Jose, CA (08/2014)
- 2013 **High Performance, Flexible Memory Caching**  
Internship talk: IBM Almaden Research Center, San Jose, CA (08/2013)

## Teaching

### At University of Virginia

- Fall 2025 **CS6501 Serverless AI**  
Enrollment: 21
- Spring 2025 **DS5110 Big Data Systems**  
Enrollment: 62
- Fall 2024 **CS4740 Cloud Computing**  
Enrollment: 69

Spring 2024 **CS/DS5110 Big Data Systems**  
Enrollment: 97

Spring 2023 **DS5110 Big Data Systems**  
Enrollment: 64  
**At George Mason University**

Spring 2022 **CS571 Operating Systems**  
Enrollment: 23, (overall instructor rating and course rating cancelled starting Spring 2022)

Fall 2021 **CS475 Concurrent & Distributed Systems**  
Enrollment: 58, Instructor rating: 4.36/5, course rating: 4.16/5

Spring 2021 **CS571 Operating Systems**  
Enrollment: 18, Instructor rating: 4.93/5, course rating: 4.64/5

Fall 2020 **Teaching leave**

Spring 2020 **CS675 Distributed Systems**  
Enrollment: 9 (formal teaching evaluation cancelled due to COVID-19)

Spring 2020 **CS571 Operating Systems**  
Enrollment: 34 (formal teaching evaluation cancelled due to COVID-19)

Fall 2019 **CS471 Operating Systems**  
Enrollment: 68, Instructor rating: 4.33/5, Course rating: 3.98/5

Spring 2019 **CS471 Operating Systems**  
Enrollment: 66, Instructor rating: 4.63/5, Course rating: 4.06/5

Fall 2018 **CS795 Cloud Computing**  
Enrollment: 8, Instructor rating: 4.88/5, Course rating: 4.88/5

Fall 2017 **CS471 Operating Systems**  
Enrollment: 59, Instructor rating: 2.94/5, Course rating: 2.81/5

## Student Advising

### PhD Dissertation Advisor

1. Yuqi Fu, PhD, Computer Science, University of Virginia, started 2020, expected to graduate Fall 2025  
Topic: Serverless resource scheduling  
Internships:
  - Google, Spring–Fall 2024.
  - Adobe, Summer 2023.
  - ByteDance, Summer 2022.
2. Rui Yang, PhD, Computer Science, University of Virginia, started 2021, expected to graduate Fall 2025  
Topic: Systems for ML and AI systems  
Internships:
  - AWS, Summer 2025.
3. Zhaoyuan (Alex) Su, PhD, Computer Science, University of Virginia, started 2021  
Topic: AI systems  
Internships:
  - Samsung, Summer 2024.
  - Argonne National Laboratory, Summer 2022.
4. Zirui Wang, PhD, Computer Science, University of Virginia, started 2024  
Topic: Storage systems for AI

5. Tingfeng Lan, PhD, Computer Science, University of Virginia, started 2024  
Topic: AI systems and systems for AI
  6. Yusen Wu, PhD, Computer Science, University of Virginia, starting 2025  
Topic: AI systems and systems for AI
- On-leave Ao Wang, PhD, George Mason University, 2018–2020 (on leave) → Technical Expert @ Alibaba Cloud Function Compute

### Graduated PhD Students

1. Jingyuan Zhang, PhD, George Mason University, 2023 → Software Engineer, Cloud native infrastructure team @ ByteDance
2. Zheng Chai, PhD, CS, University of Virginia, 2024 → Machine Learning Engineer
3. Benjamin Carver, PhD, CS, George Mason University, 2025 → Research Scientist, AI networking infrastructure team @ Meta

### Master Research

1. Benjamin Carver, Accelerated BS/MS Program@GMU, *2 papers published*  
Topic: Designing a Serverless Data Analytics Framework
2. Rafael Madrid MS, CS,  
Topic: Designing NVM Storage for Serverless Workloads
3. Anne Martine Augustin (MS, SWE, Spring'19–Summer'19)

### Undergraduate Research

Junho Lee, CS@UVA, REU support  
Huarui Liu, CS@UVA, REU support  
Chinmay Gowda, CS@UVA  
Matthew Haid, CS@UVA  
Sherry Zhao, CS@UVA  
Jingzhou Qiu, CS@UVA  
Shengming Gao, CS@UVA  
Michael Somarriba, CS@GMU  
Daniel Meneses, CS@GMU  
Yuanqi Du, CS@GMU  
Benjamin Carver, CS@GMU, REU support  
Isaiah King, CS@GMU, REU support  
Dawen Yang, CS@GMU  
Mark Boehen, ECE@GMU  
Prajith Pandrate, CS, University of Illinois Urbana Champaign  
Hannan Fayyaz, CS, York University, Canada  
Zeshan Fayyaz, CS, Ryerson University, Canada

### PhD Dissertation Committee Member

Shohaib Mahmud, PhD, CS@UVA  
Defense Suraiya, PhD, CS@UVA  
Marshall Clyburn, PhD, CS@UVA  
Tanmoy Sen, PhD, CS@UVA  
Guangji Bai, PhD, CS@Emory  
Redwan Ibne Seraj Khan, PhD, CS@VT  
Samuel S. Ogden, PhD, CS@WPI

Hengrun Zhang, PhD, CS@GMU  
Li Liu, PhD, CS@GMU  
Robert Lorentz, PhD, ECE@GMU

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## Open-source Software

INFINICACHE: <https://github.com/ds2-lab/infinicache>

INFINISTORE: <https://github.com/ds2-lab/infinistore>

$\lambda$ FS: <https://github.com/ds2-lab/LambdaFS>

WUKONG: <https://github.com/ds2-lab/Wukong>

FAASNET: <https://github.com/ds2-lab/FaaSNet>

SFS: <https://github.com/ds2-lab/SFS>

ALPS: <https://github.com/ds2-lab/ALPS>

ELF: <https://github.com/ds2-lab/ELF>

Algorithmic complexity attacks for dynamic learned indexes: <https://github.com/ds2-lab/aca-dlis>

BESPOKV: <https://github.com/tddg/bspokv>

SHADE: <https://github.com/R-I-S-Khan/SHADE>

CIDRE: [https://github.com/nzc5ve/cidre\\_asplos25](https://github.com/nzc5ve/cidre_asplos25)

ZipLLM: <https://github.com/JerryW35/ZipLLM>

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## Professional Services

### University, College, and Department Service

- 2024–2025 Faculty search committee, School of Data Science, UVA
- 2024–2025 Ph.D. admissions committee, Computer Science, UVA
- 2024–2025 Master's admissions committee, Computer Science, UVA
- 2021–2022 Faculty search committee, Computer Science, GMU
- 2017–2019 Ph.D. admissions committee, Computer Science, GMU

### Conference Organizer and Community Services

- 2025 **ICDCS**, Cloud Computing Track TPC Chair, IEEE International Conference on Distributed Computing Systems
- 2024 **HotStorage**, General co-chair, ACM Workshop on Hot Topics in Storage and File Systems
- 2023 **HotStorage**, Publication chair, ACM Workshop on Hot Topics in Storage and File Systems
- 2023 **HPDC**, Workshop co-chair, ACM International Symposium on High-Performance Parallel and Distributed Computing
- 2022 **HotStorage**, Publication chair, ACM Workshop on Hot Topics in Storage and File Systems
- 2021–present **IEEE STCOS**, Co-chair, IEEE Special Technical Community on Operating Systems
- 2021 **ICDCS**, Local arrangement chair, IEEE International Conference on Distributed Computing Systems
- 2019 **SEC**, Local arrangement chair, ACM/IEEE Symposium on Edge Computing

### Journal Editorship

- 2024–present Topic Editor for Frontiers in Computer Science: Serverless Computing for Stateful Applications
- 2023–present Review Editor for Frontiers in High Performance Computing

## Award Committee

- 2023 Committee for IEEE CS TCHPC Early Career Researchers Award for Excellence in High Performance Computing

## Technical Program Committee

- 2026 **EuroSys**, European Conference on Computer Systems: Spring + Fall cycle
- 2026 **FAST**, 24<sup>th</sup> USENIX Conference on File and Storage Technologies: Spring + Fall cycle
- 2025 **BigMem**, The International Workshop on Big Memory (co-located with ACM SOSP 2025)
- 2025 **SoCC**, ACM Symposium on Cloud Computing
- 2025 **NeurIPS**, 39<sup>th</sup> Annual Conference on Neural Information Processing Systems
- 2025 **SC**, International Conference for High Performance Computing, Networking, Storage, and Analysis
- 2025 **HotStorage**, ACM Workshop on Hot Topics in Storage and File Systems
- 2025 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing
- 2025 **ATC**, 2025 USENIX Annual Technical Conference
- 2025 **FAST**, 23<sup>rd</sup> USENIX Conference on File and Storage Technologies
- 2025 **PPoPP**, ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming
- 2025 **NSDI**, 22<sup>nd</sup> USENIX Symposium on Networked Systems Design and Implementation: Spring cycle + Fall cycle
- 2024 **SoCC**, ACM Symposium on Cloud Computing
- 2024 **HiPC**, 31<sup>st</sup> IEEE International Conference on High Performance Computing (HPC), Data, and Analytics
- 2024 **IEEE Cloud**, IEEE International Conference on Cloud Computing
- 2024 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing
- 2024 **IPDPS**, IEEE International Parallel and Distributed Processing Symposium
- 2023 **SoCC**, ACM Symposium on Cloud Computing
- 2023 **HotStorage**, ACM Workshop on Hot Topics in Storage and File Systems
- 2023 **IEEE Cloud**, IEEE International Conference on Cloud Computing
- 2023 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing
- 2023 **IPDPS**, IEEE International Parallel and Distributed Processing Symposium
- 2022 **NAS** (storage track), IEEE International Conference on Networking, Architecture, and Storage
- 2022 **KDD** (ERC), ACM SIGKDD International Conference on Data Mining
- 2022 **HiPS**, Workshop on High Performance Serverless Computing@HPDC 2022
- 2022 **SEC**, ACM/IEEE Symposium on Edge Computing
- 2022 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing
- 2021 **REX-IO**, Workshop on Re-envisioning Extreme-Scale I/O for Emerging Hybrid HPC Workloads
- 2021 **ICDCS**, 41<sup>st</sup> IEEE International Conference on Distributed Computing Systems
- 2021 **SEC**, ACM/IEEE Symposium on Edge Computing
- 2021 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing
- 2020 **PDSW-DISCS**, 5<sup>th</sup> International Parallel Data Systems Workshop
- 2020 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing
- 2020 **ICDCS**, 40<sup>th</sup> IEEE International Conference on Distributed Computing Systems
- 2020 **SC**, International Conference for High Performance Computing, Networking, Storage, and Analysis
- 2020 **MSST**, 36<sup>th</sup> International Conference on Massive Storage Systems and Technology
- 2020 **CCGrid**, IEEE/ACM International Symposium in Cluster, Cloud, and Grid Computing

- 2019 **PDSW-DISCS**, 4<sup>th</sup> International Parallel Data Systems Workshop
- 2019 **MASCOTS**, 27<sup>th</sup> IEEE International Symposium on the Modeling, Analysis, and Simulation of Computer and Telecommunication Systems
- 2019 **IPDPS** (ERC), IEEE International Parallel and Distributed Processing Symposium
- 2019 **CCGrid** (ERC), IEEE/ACM International Symposium in Cluster, Cloud, and Grid Computing
- 2019 **BlockDM**, First IEEE International Workshop on Blockchain and Data Management
- 2019 **MSST**, 35<sup>th</sup> International Conference on Massive Storage Systems and Technology
- 2019 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing
- 2018 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing
- 2018 **ICS** (ERC), ACM International Conference on Supercomputing
- 2018 **IPDPS** (ERC), IEEE International Parallel and Distributed Processing Symposium
- 2018 **ICCCN**, International Conference on Mobile Systems and Pervasive Computing
- 2018 **MobiSPC**, International Conference on Computer Communications and Networks
- 2017 **BDCAT**, IEEE/ACM International Conference on Big Data Computing, Applications and Technologies

### Proposal Review Panels

- 2025 **DOE**, Office of Science, Advanced Scientific Computing Research (ASCR) Program
- 2025 **NSF**, Division of the Office of Advanced Cyberinfrastructure (OAC)
- 2025 **NSF**, Computer Systems Research (CSR) under the division of Computer and Network Systems (CNS)
- 2024 **RGC**, Research Grants Council (RGC) of Hong Kong: Proposal reviewer
- 2023 **DOE**, Office of Science, Advanced Scientific Computing Research (ASCR) Program
- 2021 **NSF**, Computer Systems Research (CSR) under the division of Computer and Network Systems (CNS)
- 2020 **NSF**, Computer Systems Research (CSR) under the division of Computer and Network Systems (CNS)
- 2019 **NSF**, Computer Systems Research (CSR) under the division of Computer and Network Systems (CNS)
- 2019 **NSF**, Software and Hardware Foundations (SHF) under the division of Computing and Communication Foundations (CCF)

### Shadow Technical Program Committees

- 2018 **EuroSys**, ACM European Conference on Computer Systems
- 2017 **EuroSys**, ACM European Conference on Computer Systems
- 2016 **EuroSys**, ACM European Conference on Computer Systems

### Journal Reviews

- 2025 **Nature Machine Intelligence**
- 2019 **TC**, IEEE Transactions on Computers
- 2019 **JPDC**, Journal of Parallel and Distributed Computing
- 2019 **TPDS**, IEEE Transactions on Parallel and Distributed Systems
- 2019 **TCC**, IEEE Transactions on Cloud Computing
- 2018 **TPDS**, IEEE Transactions on Parallel and Distributed Systems
- 2018 **TOS**, ACM Transactions on Storage
- 2018 **TCC**, IEEE Transactions on Cloud Computing
- 2017 **TOS**, ACM Transactions on Storage



2017 **TC**, IEEE Transactions on Computers  
2017 **TAAS**, ACM Transactions on Autonomous and Adaptive Systems  
2017 **JPDC**, Journal of Parallel and Distributed Computing  
2016 **TPDS**, IEEE Transactions on Parallel and Distributed Systems  
2015 **TPDS**, IEEE Transactions on Parallel and Distributed Systems

#### Conference Reviews

2017 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing  
2017 **Cluster**, IEEE Cluster Conference  
2017 **NAS**, International Conference on Networking, Architecture, and Storage  
2017 **ICS**, ACM International Conference on Supercomputing  
2017 **ICDCS**, IEEE International Conference on Distributed Computing Systems  
2016 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing  
2016 **ICDCS**, IEEE International Conference on Distributed Computing Systems  
2016 **SC**, International Conference for High Performance Computing, Networking, Storage, and Analysis  
2016 **BigData**, IEEE International Conference on Big Data  
2016 **ICPP**, International Conference on Parallel Processing  
2015 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing  
2015 **SC**, International Conference for High Performance Computing, Networking, Storage, and Analysis  
2014 **HPDC**, ACM International Symposium on High-Performance Parallel and Distributed Computing  
2014 **BigData**, IEEE International Conference on Big Data