Qinglei Cao

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RESEARCH INTERESTS

Parallel and distributed computing, Task-based runtime systems, Linear algebra algorithms, Extreme-scale domain applications, and Large-scale machine learning & deep learning

EDUCATION

	y of Tennessee, Knoxville (UTK), Computer Science	2016 - 2022
PhD , High Per	formance Computing	
Advisor: Dr	Tack Dongarra (Turing Award 2021)	
Group Leader	· & Co-Advisor: Dr. George Bosilca	
Ocean Univer	sity of China (OUC), Computer Application Technology	2013 - 2016
MS, Image Pro	cessing & Parallel Computing	
Advisors: Dr.	Yuntao Qian (Zhejiang University), Dr. Zhiqiang Wei (OUC)	
	rsity (HNU), Information and Computational Science	2005 - 2009
Group Leader Ocean Univer MS, Image Pro Advisors: Dr.	**Sity of China (OUC), Computer Application Technology cessing & Parallel Computing Yuntao Qian (Zhejiang University), Dr. Zhiqiang Wei (OUC) rsity (HNU), Information and Computational Science	

➡ PROFESSIONAL EXPERIENCE

Department of Computer Science, Saint Louis University (SLU)

Assistant Professor	2023 - Present
Innovative Computer Laboratory (ICL), UTK Post-Doctoral Research Associate	Knoxville, TN 2023
Cerebras Systems, Inc. Member of Technical Staff	Sunnyvale, CA 2022 - 2023
Cerebras Systems, Inc. Summer Intern	Sunnyvale, CA 2021
Cadence Design Systems, Inc. Summer Intern	Austin, TX 2020

St. Louis, MO

Y AWARDS & GRANTS

 \diamond AWARDS

TCSC SCALE Challenge Award (Finalist, 2 Entries)	2025

ACM Gordon Bell Prize for Climate Modelling	2024
ACM Gordon Bell Prize (Finalist)	2024
ACM Gordon Bell Prize (Finalist)	2022
SIAM Student Travel Award	2021
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Best Paper Award, CLUSTER	2020
™ Graduate Student Senate (GSS) Travel Awards, UTK	2020

♦ GRANTS

GRANIS	
POSE/NSF, Co-PI	2025-2026
CRII/OAC/NSF, Solo-PI	2025-2027
E3SM/ORNL/DOE, Sub-Award	2024-2025
Parsec/ECP/DOE, Other Personnel	2017-2022

♦ COMPUTING RESOURCE ALLOCATIONS

Frontier Supercomputer, Oak Ridge National Laboratory, US	2022-Present
r Fugaku Supercomputer, RIKEN, Japan	2021-Present
Polaris Supercomputer, Argonne National Laboratory, US	2025-Present
Leonardo Supercomputer, EuroHPC/CINECA, Italy	2024
Alps Supercomputer, Swiss National Supercomputing Centre, Switzerland	2024
Summit Supercomputer, Oak Ridge National Laboratory, US	2020-2024

PUBLICATIONS

♦ Conference & Journal Papers

- 1. Zhuowei Gu, Dali Wang, Dawei Gao, Yunhe Feng and Qinglei Cao. Flexible User-defined Domain Decomposition in Kilometer-Scale E3SM Land Model Simulation. International Conference on Computational Science (ICCS), 2025
- Rabab Alomairy, Qinglei Cao, Hatem Ltaief and David Keyes. Scalable Low-Rank Solvers for Large-Scale 3D Mesh Deformation Using Global and Compact Support RBF Kernels. IEEE International Symposium on Cluster, Cloud, and Internet Computing (CCGRID, TCSC SCALE Challenge Award, Finalist), 2025
- 3. Dali Wang, Chen Wang, Qinglei Cao, Jayesh Krishna, Danqing Wu, Weijian Zheng, Peter Schwartz, Fengming Yuan, Kathryn Mohror and Peter Thornton. Scaling Ultrahigh-Resolution E3SM Land Model for Leadership-Class Supercomputers. IEEE International Symposium on Cluster, Cloud, and Internet Computing (CCGRID, TCSC SCALE Challenge Award, Finalist), 2025
- 4. Qiao Zhang, Rabab Alomairy, Dali Wang, Zhuowei Gu and Qinglei Cao. Leveraging Hardware-Aware Computation in Mixed-Precision Matrix Multiply: A Tile-Centric Approach. Workshop on Asynchronous Many-Task Systems and Applications (WAMTA), 2025
- 5. Aurelien Bouteiller, Qinglei Cao, Joseph Schuchart and Thomas Herault. Comparing and Contrasting User and Runtime Directed Data Placement Strategies for Owner-Compute, Multi-Accelerator Distributed Task Based Scheduling. Workshop on Asynchronous Many-Task Systems and Applications (WAMTA), 2025
- 6. Rabab Alomairy, Hatem Ltaief, Qinglei Cao and David Keyes. Analyzing Data Sparsity in Global and Compact Support Radial Basis Functions for 3D Unstructured Mesh Deformation. Workshop on Asynchronous Many-Task Systems and Applications (WAMTA), 2025
- 7. Rabab Alomairy, Qinglei Cao, Hatem Ltaief, David E. Keyes, and Alan Edelman. Scalable Hamming Distance Computation Using Accelerated Matrix Transformations. ISC High Performance, 2025 [PDF]
- 8. Wang, Dali, Peter Schwartz, Fengming Yuan, Franklin Eaglebarge, Danial Riccuito, Peter Thornton, Chris Layton, and Qinglei Cao. Portable Software Environment for Ultrahigh-Resolution ELM Development on GPUs. Journal of Computer and Communications, 2025 [PDF]
- 9. Aurelien Bouteiller, Thomas Herault, Qinglei Cao, Joseph Schuchart, and George Bosilca. PaRSEC: Scalability, Flexibility, and Hybrid Architecture Support for Task-based Applications in ECP. International Journal of High Performance Computing Applications (IJHPCA), 2025 [PDF]
- 10. Sameh Abdulah, Allison H. Baker, George Bosilca, Qinglei Cao, Stefano Castruccio, Marc G. Genton, David E. Keyes, Zubair Khalid, Hatem Ltaief, Yan Song, Georgiy L. Stenchikov, and Ying Sun. Boosting Earth System Model Outputs And Saving PetaBytes in their Storage Using Exascale Climate Emulators. International Conference for High Performance Computing, Networking, Storage and Analysis (SC, ACM Gordon Bell Prize for Climate Modelling), 2024 [PDF]
- 11. Hatem Ltaief, Rabab Alomairy, Qinglei Cao, Jie Ren, Lotfi Slim, Thorsten Kurth, Benedikt Dorschner, Salim Bougouffa, Rached Abdelkhalek, and David E. Keyes. Toward Capturing Genetic Epistasis From Multivariate Genome-Wide Association Studies Using Mixed-Precision Kernel Ridge Regression.

- International Conference for High Performance Computing, Networking, Storage and Analysis (SC, ACM Gordon Bell Prize, Finalist), 2024 [PDF]
- 12. Shihui Song, Yafan Huang, Peng Jiang, Xiaodong Yu, Weijian Zheng, Sheng Di, Qinglei Cao, Yunhe Feng, Zhen Xie, and Franck Cappello. CereSZ: Enabling and Scaling Error-bounded Lossy Compression on Cerebras CS-2. International Symposium on High-Performance Parallel and Distributed Computing (HPDC), 2024 [
- 13. Kareem Shaik, Dali Wang, Weijian Zheng, Qinglei Cao, Heng Fan, Peter Schwartz, and Yunhe Feng. S3LLM: Large-Scale Scientific Software Understanding with LLMs using Source, Metadata, and Document. International Conference on Computational Science (ICCS), 2024 [PDF]
- 14. Qinglei Cao, Thomas Herault, Aurelien Bouteiller, Joseph Schuchart, and George Bosilca. Evaluating PaRSEC through Matrix Computations in Scientific Applications. Workshop on Asynchronous Many-Task Systems and Applications (WAMTA), 2024 [PDF]
- 15. Qinglei Cao, Sameh Abdulah, Hatem Ltaief, Marc G Genton, David E Keyes, and George Bosilca. Reducing Data Motion and Energy Consumption of Geospatial Modeling Applications Using Automated Precision Conversion. IEEE International Conference on Cluster Computing (CLUSTER), 2023 [PDF]
- 16. Qinglei Cao, Sameh Abdulah, Rabab Alomairy, Yu Pei, Pratik Nag, George Bosilca, Jack Dongarra, Marc G Genton, David E Keyes, Hatem Ltaief, and Ying Sun. Reshaping geostatistical modeling and prediction for extreme-scale environmental applications. International Conference for High Performance Computing, Networking, Storage and Analysis (SC, ACM Gordon Bell Prize, Finalist), 2022 [PDF]
- 17. Dong Zhong, Qinglei Cao, George Bosilca, and Jack Dongarra. Using long vector extensions for MPI reductions. Parallel Computing (PARCO), 2021 [PDF]
- 18. Sameh Abdulah, Qinglei Cao, Yu Pei, George Bosilca, Jack Dongarra, Marc G. Genton, David E. Keyes, Hatem Ltaief, and Ying Sun. Accelerating geostatistical modeling and prediction with mixed-precision computations: A high-productivity approach with parsec. IEEE Transactions on Parallel and Distributed Systems (TPDS), 2022 [PDF]
- 19. Qinglei Cao, Rabab Alomairy, Yu Pei, George Bosilca, Hatem Ltaief, David Keyes, and Jack Dongarra. A framework to exploit data sparsity in tile low-rank Cholesky factorization. IEEE International Parallel & Distributed Processing Symposium (IPDPS), 2022 [PDF]
- 20. Qinglei Cao, George Bosilca, Nuria Losada, Wei Wu, Dong Zhong, and Jack Dongarra. Evaluating data redistribution in parsec. IEEE Transactions on Parallel and Distributed Systems (TPDS), 2021[PDF]
- 21. Qinglei Cao, Yu Pei, Kadir Akbudak, George Bosilca, Hatem Ltaief, David Keyes, and Jack Dongarra. Leveraging parsec runtime support to tackle challenging 3d data-sparse matrix problems. IEEE International Parallel and Distributed Processing Symposium (IPDPS), 2021 [PDF]
- 22. Yunhe Feng, Dong Zhong, Peng Sun, Weijian Zheng, Qinglei Cao, Xi Luo, and Zheng Lu. Micromobility in smart cities: A closer look at shared dockless e-scooters via big social data. IEEE International Conference on Communications (ICC), 2021 [PDF]
- 23. Qinglei Cao, George Bosilca, Wei Wu, Dong Zhong, Aurelien Bouteiller, and Jack Dongarra. Flexible data redistribution in a task-based runtime system. IEEE International Conference on Cluster Computing (CLUSTER), 2020 [PDF]
- 24. Qinglei Cao, Yu Pei, Kadir Akbudak, Aleksandr Mikhalev, George Bosilca, Hatem Ltaief, David Keyes, and Jack Dongarra. Extreme-scale task-based Cholesky factorization toward climate and weather prediction applications. ACM Platform for Advanced Scientific Computing Conference (PASC), 2020 [PDF]
- 25. Elliott Slaughter, Wei Wu, Yuankun Fu, Legend Brandenburg, Nicolai Garcia, Wilhem Kautz, Emily Marx, Kaleb S. Morris, Qinglei Cao, George Bosilca, Seema Mirchandaney, Wonchan Lee, Sean Treichler, Patrick McCormick, and Alex Aiken. Task bench: a parameterized benchmark for evaluating parallel runtime performance. IEEE/ACM International Conference for High Performance Computing, Networking, Storage and Analysis (SC), 2020 [PDF]

- 26. Xi Luo, Wei Wu, George Bosilca, Yu Pei, Qinglei Cao, Thananon Patinyasakdikul, Dong Zhong, and Jack Dongarra. Han: a hierarchical autotuned collective communication framework. IEEE International Conference on Cluster Computing (CLUSTER, Best Paper), 2020 [PDF]
- 27. Dong Zhong, Qinglei Cao, George Bosilca, and Jack Dongarra. Using advanced vector extensions AVX-512 for MPI reductions. ACM European MPI Users' Group Meeting (EuroMPI), 2020 [PDF]
- 28. Dong Zhong, Pavel Shamis, Qinglei Cao, George Bosilca, Shinji Sumimoto, Kenichi Miura, and Jack Dongarra. Using ARM scalable vector extension to optimize OpenMPI. IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing (CCGRID), 2020 [PDF]
- 29. Yu Pei, Qinglei Cao, George Bosilca, Piotr Luszczek, Victor Eijkhout, and Jack Dongarra. Communication avoiding 2d stencil implementations over PaRSEC task-based runtime. IEEE International Parallel and Distributed Processing Symposium Workshops (IPDPSW), 2020 [PDF]
- 30. Qinglei Cao, Yu Pei, Thomas Herault, Kadir Akbudak, Aleksandr Mikhalev, George Bosilca, Hatem Ltaief, David Keyes, and Jack Dongarra. Performance analysis of tile low-rank Cholesky factorization using parsec instrumentation tools. IEEE/ACM International Workshop on Programming and Performance Visualization Tools (ProTools at SC), 2019 [PDF]
- 31. Yan Yan, Jie Nie, Lei Huang, Zhen Li, Qinglei Cao, and Zhiqiang Wei. Exploring relationship between face and trustworthy impression using mid-level facial features. International Conference on Multimedia Modeling (MMM), 2016 [PDF]
- 32. Yan Yan, Jie Nie, Lei Huang, Zhen Li, Qinglei Cao, and Zhiqiang Wei. Is your first impression reliable? trustworthy analysis using facial traits in portraits. International Conference on Multimedia Modeling (MMM), 2015 [PDF]

♦ Abstracts & Posters

- Wang, Dali, Peter Schwartz, Fengming Yuan, Daniel M. Ricciuto, Shih-Chieh Kao, Michele Thornton, Anthony Walker, Peter E. Thornton, Qinglei Cao, and Chen Wang. Kilometer-scale E3SM Land Model: Code Development, Deployment, Evaluation, and Applications. American Geophysical Union (AGU), 2024
- Qinglei Cao, Yu Pei, Kadir Akbudak, Aleksandr Mikhalev, George Bosilca, Hatem Ltaief, David Keyes, and Jack Dongarra. Extreme-Scale Tile Low-Rank Cholesky Factorization Using the PaRSEC Task-Based Runtime. ACM Platform for Advanced Scientific Computing Conference (PASC), 2021

ROFESSIONAL ACTIVITIES

\Diamond	Editorial	Board/	Guest	Editor
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SN Computer Science

2023 - 2024

♦ Local Organizer

Workshop on Asynchronous Many-Task Systems and Applications

2025

2025

♦ Technical Program Chair

Workshop on Asynchronous Many-Task Systems and Applications

2025

♦ Technical Program Committee

International Conference for High Performance Computing, Networking, Storage and Analysis (SC) 2025

International Conference on Parallel Processing (ICPP)

American Journal of Computer Science and Technology

2025

2025

Asynchronous Many-Task systems for Exascale (AMTE)

2025

Workshop on HPC on Heterogeneous Hardware

2024

2022, 2023, 2025

™ International Conference on Parallel Processing (ICPP)

Association for the Advancement of Artificial Intelligence (AAAI) Undergraduate Consortium	2024
International Supercomputing Conference (ISC) High Performance	2024
International Parallel & Distributed Processing Symposium (IPDPS)	2024
Intl Conference for High Performance Computing, Networking, Storage and Analysis AD/AE (S	C) 2021
Intl Conference on Advances and Trends in Software Engineering (SOFTENG) 202	1 - 2024
♦ Conference & Journal Reviewer	
www Workshop on Asynchronous Many-Task Systems and Applications	2024
Parallel Computing	2023
■ Journal of Supercomputing	2023
™ IEEE Transactions on Multimedia	2023
ACM Transactions on Mathematical Software (TOMS)	2023
International Conference on Emerging Information Security and Applications	2022
Intl Conference for High Performance Computing, Networking, Storage and Analysis (SC) 20	20, 2021
PeerJ Computer Science	2021
International Conference on Cluster Computing (CLUSTER)	2020
International Conferences on High Performance Computing and Communications (HPCC) 20	20, 2021
♦ Others	
Student Cluster Competition (SCC) and IndySCC at SC	2025
♥ TEACHING EXPERIENCE	
▼ TEACHING EXPERIENCE ♦ Lecturer	
	25, SLU
♦ Lecturer © CSCI 2510 Principles of Computing Systems Spring 20	25, SLU 24, SLU
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 ♦ Lecturer CSCI 2510 Principles of Computing Systems CSCI 4620/5620 Distributed Computing CSCI 4620/5620 Distributed Computing Spring 20 CSCI 4620/5620 Distributed Computing Fall 20 ♦ Guest Lecturer CSCE 5300 Introduction to Big Data and Data Science Spring 202 	24, SLU 24, SLU 23, SLU
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◇ Lecturer Spring 20 © CSCI 2510 Principles of Computing Systems Spring 20 © CSCI 4620/5620 Distributed Computing Fall 20 © CSCI 4620/5620 Distributed Computing Spring 20 © CSCI 4620/5620 Distributed Computing Fall 20 ◇ Guest Lecturer CSCE 5300 Introduction to Big Data and Data Science Spring 20 © CSCI 5090 Computer Science Colloquium Fall 20 © CSCI 5090 Computer Science Colloquium Fall 20	24, SLU 24, SLU 23, SLU 25, UNT 24, SLU
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NVIDIA GTC (GPU Technology Conference)	2025
SIAM Conference on Computational Science and Engineering	2025
University of North Texas	2025
Annual Workshop on Charm++ and Its Applications	2024
Innovative Computer Laboratory (ICL) Lunch Talk 2019, 2020, 2021	1, 2022
Joint Laboratory on Extreme Scale Computing Workshop (JLESC)	2021
SIAM Conference on Computational Science and Engineering (CSE)	2021
SIAM Conference on Parallel Processing for Scientific Computing (PP)	2020
♦ Paper Presentation	
Workshop on Asynchronous Many-Task Systems and Applications (WAMTA)	2024
International Conference on Cluster Computing (CLUSTER)	2023
International Parallel and Distributed Processing Symposium (IPDPS)	1, 2022
International Conference on Cluster Computing (CLUSTER)	2020
Platform for Advanced Scientific Computing Conference (PASC)	2020
International Workshop on Programming and Performance Visualization Tools (ProTools at SC)	2019
♦ Poster	
Joint Laboratory on Extreme Scale Computing Workshop (JLESC)	2020
Platform for Advanced Scientific Computing Conference (PASC)	2020
OPEN SOURCE CONTRIBUTIONS	

OPEN SOURCE CONTRIBUTIONS

- $\diamond \ [\textbf{PaRSEC}] \text{: Task-based runtime system, funded by Exascale Computing Project (ECP)}$
- ♦ [DPLASMA]: Leading implementation of a dense linear algebra package for distributed system
- ♦ [HiCMA]: Low-rank math library of exploiting the data sparsity of the matrix operator
- ♦ [ExaGeostat]: Parallel high performance unified framework for computational geostatistics

■ MEDIA COVERAGE	
♦ SC24 Gordon Bell Prizes Awarded[HPCwire]
$\diamond~2024$ Gordon Bell Prizes Awarded at SC24[ACM]
\diamond Gordon Bell Prize for Climate Modelling Goes to Team for Exascale Emulator Breakthrough[HPCwire
 Recipients of Prestigious Climate Modelling Prize Developed a Technique to Provide More A Detailed Climate Change Predictions[accurate and ACM]
♦ ACM Gordon Bell Prize for Climate Modelling[ACM]
\diamond ACM Presents Winners of Gordon Bell Climate Modelling Prize[inside HPC]
\diamond ORNL's Frontier Powers KAUST-Led Genome Study for Gordon Bell Prize Nomination[HPCwire
♦ Bigger, Faster, Smarter Genetics Research[ORNL]
\diamond Frontier Users' Exascale Climate Emulator Nominated for Gordon Bell Climate Prize[ORNL]
\diamond Researchers Benchmark Nvidia's GH200 Supercomputing Chips[HPCwire]
$\diamond \ \ Gordon \ Bell \ Prize \ Finalists \ Develop \ Method \ for \ More \ Efficient \ Computing [AAAS \ Eurekalert] [Interpretation \ AAAS \ Eurekalert] \\$	HLRS News]
\diamond Inside the Gordon Bell Prize Finalist Projects [HPCwire]

♦ SC22 Unveils ACM Gordon Bell Prize Finalists

HPCwire]

 $\diamond~2022~\mathrm{ACM}$ Gordon Bell Prize Finalists Announced[

- Communications of the ACM]
- ♦ What's New in HPC Research: EXA2PRO, DQRA, and HiCMA-PaRSE Frameworks & More [HPCwire]
- ♦ KAUST Leverages Mixed Precision for Geospatial Data[

HPCwire]

♦ Mixing Precision for Model Acceleration[

- Tech Xplore
- ♦ Mixing It Up: Saudi Researchers Accelerate Environmental Models with Mixed Precision[
- Nvidia]
- ◇ 「富岳」を用いた3つの研究成果がゴードン・ベル賞ファイナリストに選出されました[R

RIKEN News]

Last updated: July 14, 2025