

RESEARCH INTERESTS

- Scientific machine learning, high performance computing, and tensor decomposition algorithms

EDUCATION

University of California, Irvine Ph.D. in Computer Science Advisor: Aparna Chandramowlishwaran	Sep, 2022–current
Wake Forest University M.S. in Computer Science Advisor: Grey Ballard Thesis: Efficient Computation of the Tucker Decomposition and Moment Tensor	Jan, 2020–May, 2022
North Carolina State University	Fall, 2019
University of Nebraska-Lincoln B.S. in Computer Science	Aug, 2014–May, 2018

ACADEMIC EXPERIENCE

Research Assistant University of California, Irvine	Sep 2022–Sep 2023
Research Assistant Wake Forest University	Jan 2021–May 2022
R&D Graduate Intern Sandia National Laboratories	Summer 2021 and 2022
Teaching Assistant University of California, Irvine	
EECS 215: Design and Analysis of Algorithms	Fall 2023
Wake Forest University	
CSC 111: Introduction to Computer Science	Winter 2020
CSC 112: Fundamentals of Computer Science	Fall 2020

INDUSTRY EXPERIENCE

Software Developer Quantum Workplace	2018–2019 Omaha NE
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PUBLICATIONS

*: equal contributions

1. [SC 2023] Arthur Feeney*, **Zitong Li***, Ramin Bostanabad, and Aparna Chandramowlishwaran. Breaking Boundaries: Distributed Domain Decomposition with Scalable Physics-Informed Neural PDE Solvers. *Proceedings of the International Conference on High Performance Computing, Networking, Storage and Analysis*. 2023. <https://doi.org/10.1145/3581784.3613217>
2. [SIAM SISC 2023] Rachel Minster, **Zitong Li**, and Grey Ballard. Parallel Randomized Tucker Decomposition Algorithms. *arXiv preprint*. 2023. arxiv:2211.13028
3. [PASC 2022] **Zitong Li**, Hemanth Kolla, and Eric Phipps. Parallel Memory-Efficient Computation of Symmetric Higher-Order Joint Moment Tensors. *Proceedings of Platform for Advanced Scientific Computing*. 2022. <https://doi.org/10.1145/3539781.3539793>
4. [ICPP 2021] **Zitong Li**, Qiming Fang, and Grey Ballard. Parallel Tucker Decomposition with Numerically Accurate SVD. *Proceedings of the 50th International Conference on Parallel Processing*. 2021. <https://doi.org/10.1145/3472456.3472472>

SCHOLARSHIPS AND AWARDS

PhD Fellowship EECS Department, UC Irvine	2024
IEEE TCHPC travel award IEEE TCHPC	November 2023
Argonne Training Program on Extreme-Scale Computing (ATPESC) Argonne National Laboratories – Intensive training on the key skills to design and implement applications on leadership-class computing systems	July 2023
Full Tuition Scholarship Wake Forest University – Merit based scholarship for graduate students making successful academic progress	Jan 2020–May 2022
Student Travel Award SIAM Conference on Applied Linear Algebra	May 2021
Student Travel Award SIAM Conference on Computational Science and Engineering	Mar 2021
Global Laureate Tuition Scholarship University of Nebraska - Lincoln – The scholarship is awarded to international students who have demonstrated outstanding academic achievement.	2014–2018 Half tuition

TALKS AND PRESENTATIONS

- Domain Decomposition for Variable Coefficient Neural Poisson Solvers (Poster). SC'23 in November 2023
- Breaking Boundaries: Distributed Domain Decomposition with Scalable Physics-Informed Neural PDE Solvers. SC'23 in November 2023
- Parallel Memory-Efficient Computation of Symmetric Higher-Order Joint Moment Tensors. SIAM Conference on Parallel Processing for Scientific Computing in February 2022
- Parallel Tucker Decomposition with Numerically Accurate SVD. International Conference on Parallel Processing in August 2021
- Parallel Tucker Decomposition with Numerically Accurate SVD. SIAM Conference on Applied Linear Algebra in May 2021