

## RESEARCH INTERESTS

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

## EDUCATION

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

## ACADEMIC EXPERIENCE

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<b>Research Assistant</b> University of California, Irvine	Sep 2022–Sep 2023
<b>Research Assistant</b> Wake Forest University	Jan 2021–May 2022
<b>R&amp;D Graduate Intern</b> Sandia National Laboratories	Summer 2021 and 2022
<b>Teaching Assistant</b> 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

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<b>Software Developer</b> Quantum Workplace	2018–2019 Omaha NE
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## PUBLICATIONS

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\*: equal contributions

1. [SC 2023] Arthur Feeney\*, **Zitong Li\***, Ramin Bostanabad, Aparna Chandramowliswaran. Breaking Boundaries: Distributed Domain Decomposition with Scalable Physics-Informed Neural PDE Solvers. To Appear In *Proceedings of the International Conference on High Performance Computing, Networking, Storage and Analysis*. 2023. arXiv:2308.14258
2. [SIAM SISC] Rachel Minster, **Zitong Li**, and Grey Ballard. Parallel Randomized Tucker Decomposition Algorithms. *arXiv preprint*. 2023. arxiv:2211.13028
3. [PASC 2023] **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

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

## TALKS

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- Breaking Boundaries: Distributed Domain Decomposition with Scalable Physics-Informed Neural PDE Solvers. Upcoming talk at SC23 on November 16, 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