Zitong Li

Email: zitongl5@uci.edu
GitLab: https://gitlab.com/zli96

Education

University of California, Irvine Sep, 2022–current
Ph.D. in Computer Science
Advisor: Aparna Chandramowlishwaran

Wake Forest University Jan, 2020–May, 2022
M.S. in Computer Science
Advisor: Grey Ballard

North Carolina State University Fall, 2019

University of Nebraska-Lincoln Aug, 2014–May, 2018
B.S. in Computer Science

Academic Experience

Research Assistant Sep, 2022–Sep, 2023
University of California, Irvine

Research Assistant Jan, 2021–May, 2022
Wake Forest University

R&D Graduate Intern Summer 2021 and 2022
Sandia National Laboratories

- Research topics:
  - Efficient computation of higher-order joint moment/cumulant tensors
  - Streaming Tucker tensor decomposition

Teaching Assistant
University of California, Irvine

- EECS 215: Design and Analysis of Algorithms

Wake Forest University

- CSC 111: Introduction to Computer Science
- CSC 112: Fundamentals of Computer Science

Industry Experience

Software Developer 2018–2019
Quantum Workplace Omaha, NE

Publications

1. Breaking Boundaries: Distributed Domain Decomposition with Scalable Physics-Informed Neural PDE Solvers. Arthur Feeney, Zitong Li, Ramin Bostanabad, Aparna Chandramowlishwaran. arXiv preprint arXiv:2308.14258

2. Parallel Randomized Tucker Decomposition Algorithms. Rachel Minster, Zitong Li, and Grey Ballard. arXiv preprint arxiv:2211.13028

3. Parallel Memory-Efficient Computation of Symmetric Higher-Order Joint Moment Tensors. Zitong Li, Hemanth Kolla, and Eric Phipps. *Proceedings of Platform for Advanced Scientific Computing*. 2022. https://doi.org/10.1145/3539781.3539793

4. Parallel Tucker Decomposition with Numerically Accurate SVD. Zitong Li, Qiming Fang, and Grey Ballard. *Proceedings of the 50th International Conference on Parallel Processing*. 2021. https://doi.org/10.1145/3472456.3472472

Talks

- Parallel Tucker Decomposition with Numerically Accurate SVD. Talk presented at International Conference on Parallel Processing in August 2021
- Parallel Tucker Decomposition with Numerically Accurate SVD. Talk presented at SIAM Conference on Applied Linear Algebra in May 2021
- Parallel Memory-Efficient Computation of Symmetric Higher-Order Joint Moment Tensors. Talk presented at SIAM Conference on Parallel Processing for Scientific Computing in February 2022

Scholarships and Awards

Full Tuition Scholarship Jan, 2020–May, 2022
Wake Forest University

– Merit based scholarship for graduate students making successful academic progress

Student Travel Award May, 2021
SIAM Conference on Applied Linear Algebra

Student Travel Award Mar, 2021
SIAM Conference on Computational Science and Engineering

Global Laureate Tuition Scholarship Aug, 2014–May, 2018
University of Nebraska - Lincoln Half tuition

– The scholarship is awarded to international students who have demonstrated outstanding academic achievement.