

Zhimin Li

PERSONAL INFO

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RESEARCH INTEREST

MACHINE LEARNING, DATA VISUALIZATION, HIGH PERFORMANCE COMPUTING

WORK EXPERIENCE

<i>Current</i> AUG 2016	Research Assistant at UNIVERSITY OF UTAH <i>Design Visualization Systems for Explainable AI, HPC System Fault Tolerance Analysis</i>
<i>Aug 2018-2019</i> MAY 2018-2019	Internship at LAWRENCE LIVERMORE NATIONAL LAB <i>Design Visualization System to Analyze Silent Error In HPC System</i>
<i>Aug 2016</i> MAY 2016	Internship at LAWRENCE LIVERMORE NATIONAL LAB <i>Design a visualization system to Analyze High Dimensional Data</i>
<i>Dec 2015</i> JAN 2014	Undergraduate Research Assistant at UNIVERSITY OF UTAH <i>Analyze High Dimensional Data</i>

EDUCATION

AUG 2016 - Current	Ph.d in COMPUTER SCIENCE University of Utah
SEP 2012- DEC 2015	Undergraduate Degree in COMPUTER SCIENCE University of Utah Bachelor Thesis: "G-MAP: A High Dimension Data Grand Tour Map"
SEP 2012 - DEC 2015	Undergraduate Degree in APPLIED MATHEMATICS University of Utah

PUBLICATION

"Understanding Robustness Lottery": A Geometric Visual Comparative Analysis of Neural Network Pruning Approaches (*IEEE Transactions on Visualization and Computer Graphics* 2023) (Under Submission) ([video](#), [paper](#))

Zhimin Li, Shusen Liu, Xin Yu, Kailkhura Bhavya, Jie Cao, Diffenderfer James Daniel, Peer-Timo Bremer, and Valerio Pascucci

A Visual Comparison of Silent Error Propagation (*IEEE Transactions on Visualization and Computer Graphics* 2022) ([video](#), [paper](#))

Zhimin Li, Harshitha Menon, Kathryn Mohror, Shusen Liu, Luan zheng Guo, Peer-Timo Bremer, and Valerio Pascucci

Understanding a Program's Resiliency Through Error Propagation (PPOPP 2021) ([video](#), [paper](#))

Zhimin Li, Harshitha Menon, Kathryn Mohror, Yarden Livnat, Peer-Timo Bremer, and Valerio Pascucci

SpotSDC: Revealing the Silent Data Corruption Propagation in High-Performance Computing Systems (*IEEE Transactions on Visualization and Computer Graphics* 2020) ([video](#), [paper](#))

Zhimin Li, Harshitha Menon, Dan Maljovec, Yarden Livnat, Shusen Liu, Kathryn Mohror, Peer-Timo Bremer, and Valerio Pascucci

NLIZE: A Perturbation-Driven Visual Interrogation Tool for Analyzing and Interpreting Natural Language Inference Model (*IEEE Transactions on Visualization and Computer Graphics – IEEE VIS* 2018) ([video](#), [paper](#))

Shusen Liu, **Zhimin Li**, Tao Li, Vivek Srikumar, Valerio Pascucci and Peer-Timo Bremer

Visual Interrogation of Attention-Based Models for Natural Language Inference and Machine Comprehension, *The 2018 Conference on Empirical Methods in Natural Language Processing* ([paper](#))

Shusen Liu, Tao, Li, **Zhimin Li**, Vivek Srikumar, Valerio Pascucci, and Peer-Timo Bremer .

Grand-Map: A High Dimensional Grand Tour Map (Utah UROP 2016)

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An Information Visualization System to Analyze Silent Data Corruption (SC 2018) ([poster](#))

Zhimin Li, Harshitha Menon, Yarden Livnat, Kathryn Mohror, Valerio Pascucci

Why and when do Students change Majors? 2015 IEEE VGTC VPG Data-Visualization Contest (VIS 2015 Demo)

Zhimin Li, Alexander lex

TEACHING EXPERIENCE

Aug - Dec 2017 and 2018	CS6962 Programming For Engineer
Jan - Feb 2016	CS4150 Algorithm
Aug - Dec 2015	CS3100 Models Of Computation

SCHOLARSHIPS AND CERTIFICATES

2022 ACADEMIC YEAR	IEEE E-science 18th Conference 2022 traveling scholarship
2015 ACADEMIC YEAR	KLW Artificial/Machine Learning scholarship
2015 ACADEMIC YEAR	C.M. Collins Endowed Scholarship

COMMUNITY SERVICE

SC 2021, IEEE VIS 2021-2023, Pacific VIS 2022 Reviewer,

IEEE VIS 2020 Volunteer

ACM SIGMOD/PODS 2014 Volunteer

Member of Pi Mu Epsilon (Honorary national mathematics society)

PROGRAMMING EXPERIENCE

JAVA, JAVASCRIPT, C++, C#, Python