

Wenwu GONG *PhD Candidate*

RESEARCH KEYWORDS	<div><div><div>❑ Tucker-based Low-rank Model</div><div>❑ Machine Learning</div><div>❑ Spatial-temporal Data Modeling</div></div><div><div>❑ Tensor Learning</div><div>❑ Scientific Computing</div><div>❑ Image Processing</div></div></div>
CONTACT INFORMATION	<div><div><div>✉ 12031299@mail.sustech.edu.cn</div><div>🏠 https://gongwenwu.github.io/</div><div>🐙 github.com/GongWenwu</div><div>🔍 Google Scholar  39 Citations</div></div><div>SUSTech HomePage</div></div>
BIOGRAPHY	I plan to do a visiting postgraduate internship (MATH) at HKUST in Oct. 2023. In the Summer of 2024, I will finish my Ph.D. from Southern University of Science and Technology (SUSTech), where my research focuses on Tensor Learning and Scientific Computing .
OPEN-SOURCE HIGHLIGHTS	Open-source Contribution: I am leading an open-source project named LRTL Methods and Their Applications 
EDUCATION	<div><div><div><div>🏛️ Southern University of Science and Technology</div><div>🎓 <i>Ph.D. in Mathematics</i></div><div><div>• Affiliation: Department of Statistics and Data Science</div><div>• Thesis: Low-Rank Tensor Learning: Methods, Algorithms, and Applications</div></div></div><div>Shenzhen Sep. 2020 - Present.</div></div><div><div><div><div>🏛️ Harbin Institute of Technology</div><div>🎓 <i>Master of Science in Mathematics</i></div><div>Affiliation: Probability and Statistics in <i>School of Mathematics</i></div></div><div>Shenzhen Sep. 2018 - Sep. 2020</div></div><div><div><div><div>🏛️ Nanchang University</div><div>🎓 <i>Bachelor of Science in Mathematics</i></div><div>Affiliation: <i>Applied Mathematics in School of Mathematics and Computer Sciences</i></div></div><div>Nanchang Sep. 2014 - May. 2018</div></div></div></div></div>
HONOURS AND AWARDS	<div><div><div><div>🏆 National Scholarships</div><div>🏆 International Training Program of Guangdong Province</div><div>Innovative Practice Scholarship</div><div>National Postgraduate Statistical Modeling Competition</div><div>🏆 Innovative Practice Fund of SUSTech</div></div><div><div>RMB 18,000</div><div>RMB 10,000</div><div>Second Prize</div><div>RMB 82,000</div></div><div><div>Oct. 2023</div><div>June 2023</div><div>May 2021</div><div>Dec. 2020</div><div>Sep. 2020</div></div></div></div>
TUTORIALS TA	<div><div><div>• Probability Theory and Mathematical Statistics</div><div>• Data Science and Its Applications</div></div><div><div>Sep. 2019 - May 2021</div><div>Mar. 2023 - June 2023</div></div></div>
PUBLICATIONS	<div><div><div>Preprints & Under Review</div><div><div><div>3. Wenwu Gong, Zhejun Huang, Lili Yang. ELST: A Tucker-based Prior Modeling Framework for Tensor Completion.</div><div>Manuscript</div></div><div><div>2. Wenwu Gong, Zhejun Huang, Lili Yang (2023). Enhanced low-rank and sparse Tucker decomposition for image completion.</div><div>Under review</div></div><div><div>1. Wenwu Gong, Zhejun Huang, Lili Yang (2023). Spatiotemporal regularized Tucker decomposition approach for traffic data imputation.</div><div>arXiv:2305.06563</div></div></div></div></div>

Journal Papers

1. Wenwu Gong, Zhejun Huang, Lili Yang (2023). **Accurate regularized Tucker decomposition for image restoration**. *Applied Mathematical Modeling*. 123 (11): 75-86.
JCR-Q1 IF: 5 <https://doi.org/10.1016/j.apm.2023.06.031>

Conference Papers

1. **ITSC 2023: Wenwu Gong, Zhejun Huang, Lili Yang (2023). LSPTD: Low-rank and spatiotemporal priors enhanced Tucker decomposition for internet traffic data imputation** (presentation only). *2023 IEEE Conference on Intelligent Transportation Systems*

Other Papers

2. Wenwu Gong, Jie Jiang, and Lili Yang. (2022). **Dynamic Risk Assessment of Compound Hazards Based on VFS-IEM-IDM: A Case Study of Typhoon-Rainstorm Hazards in Shenzhen, China**. *Nat. Hazards Earth Syst. Sci.* 22(10): 3271-3283.
JCR-Q1 IF: 4.6 <https://doi.org/10.5194/nhess-22-3271-2022>
1. Fanyu Meng, Wenwu Gong, Jun Liang, Xian Li, Yiping Zeng and Lili Yang. (2021). **Impact of different control policies for COVID-19 outbreak on the air transportation industry: A comparison between China, the U.S. and Singapore**. *PLoS One*. 16(3): e0248361.
JCR-Q2 IF: 3.7 <https://doi.org/10.1371/journal.pone.0248361>