Wenwu GONG *PhD Candidate*

RESEARCH KEYWORDS
- ❑ **Tucker-based Low-rank Model**
- ❑ **Machine Learning**
- ❑ Spatial-temporal Data Modeling
- ❑ **Tensor Learning**
- ❑ **Scientific Computing**
- ❑ Image Processing

CONTACT INFORMATION
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github.com/GongWenwuu
Google Scholar 39 Citations

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

LRTL

Open-source Contribution: I am leading an open-source project named **LRTL Methods Applications**.

EDUCATION

Southern University of Science and Technology — Shenzhen
Ph.D. in Mathematics — Sep. 2020 - Present.
- **Affiliation**: Department of Statistics and Data Science
- **Thesis**: Low-Rank Tensor Learning: Methods, Algorithms, and Applications

Harbin Institute of Technology — Shenzhen
Master of Science in Mathematics — Sep. 2018 - Sep. 2020
- **Affiliation**: *School of Mathematics*
- **Minor**: *Probability and Statistics*

Nanchang University — Nanchang
Bachelor of Science in Mathematics — Sep. 2014 - May. 2018
- **Affiliation**: *School of Mathematics and Computer Sciences*
- **Minor**: *Applied Mathematics*

HONOURS AND AWARDS

International Training Program of Guangdong Province	RMB 18,000	June 2023
Innovative Practice Scholarship	RMB 10,000	May 2021
National Postgraduate Statistical Modeling Competition	Second Prize	Dec. 2020
Innovative Practice Fund of SUSTech	RMB 82,000	Sep. 2020

PUBLICATIONS

SCHOLAR

Preprints & Under Review

3. Wenwu Gong, Zhejun Huang, Lili Yang. **Tucker-based Global and Local Priors Model for Tensor Completion**.
   Manuscript
2. Wenwu Gong, Zhejun Huang, Lili Yang (2023). **Enhanced low-rank and sparse Tucker decomposition for image completion**.
   Under review
1. Wenwu Gong, Zhejun Huang, Lili Yang (2023). **Manifold regularized Tucker decomposition approach for spatiotemporal traffic data imputation**.
   arXiv:2305.06563

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