

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/GongWenwu

Google Scholar 39 Citations

Ph.D

HomePage

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

Preprints & Under Review

2.

Wenwu Gong, Zhejun Huang, Lili Yang (2023). **Enhanced low-rank and sparse Tucker decomposition for image inpainting.**

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>