

Tao Deng

PH.D. STUDENT IN DATA SCIENCE

Shenzhen, Guangdong, China

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Education

The Chinese University of Hong Kong, Shenzhen (CUHK-SZ)

PH.D. STUDENT IN DATA SCIENCE

Shenzhen, Guangdong, China

Sep. 2022 - Expected Jun. 2027

Zhongnan University of Economics and Law (ZUEL)

B.SC. IN DATA SCIENCE AND BIG DATA TECHNOLOGY

Wuhan, Hubei, China

Sep. 2018 - Jun. 2022

Publications

† indicates equal contribution.

- [1] [Tao Deng](#)[†], Mengqian Huang, Kaichen Xu, Yan Lu, Yucheng Xu, Siyu Chen, Nina Xie, Qiuyue Tao, Hao Wu, and Xiaobo Sun[†] (2025). *LEGEND: Identifying Co-expressed Genes in Multimodal Transcriptomic Sequencing Data*. **Genomics, Proteomics & Bioinformatics**, 23(4), qzaf056. [DOI] [Code]
- [2] Luxiao Chen[†], Zhenxing Guo[†], [Tao Deng](#), and Hao Wu (2024). *scCTS: identifying the cell type-specific marker genes from population-level single-cell RNA-seq*. **Genome Biology**, 25(1), 269. [DOI] [Code]
- [3] [Tao Deng](#)[†], Siyu Chen, Ying Zhang, Yuanbin Xu, Da Feng, Hao Wu, and Xiaobo Sun[†] (2023). *A cofunctional grouping-based approach for non-redundant feature gene selection in unannotated single-cell RNA-seq analysis*. **Briefings in Bioinformatics**, 24(2), bbad042. [DOI] [Code]
- [4] [Tao Deng](#), Mengxuan Wan, Kaiwen Shi, Ling Zhu, Xichen Wang, and Xuchu Jiang (2021). *Short term prediction of wireless traffic based on tensor decomposition and recurrent neural network*. **SN Applied Sciences**, 3(9), 779. [DOI]

Honors & Awards

2022	Outstanding Bachelor's Thesis Award , Zhongnan University of Economics and Law	Wuhan, China
2021	National Encouragement Scholarship	Wuhan, China
2019	National Encouragement Scholarship	Wuhan, China

Academic Service

2024	Invited Reviewer , Genomics, Proteomics & Bioinformatics
2022 - Present	Lab Server Maintenance

Teaching Experience

STA-4001 Stochastic Processes LEADING TEACHING ASSISTANT	CUHK-Shenzhen Fall 2025
MAT-2041 Linear Algebra and Applications LEADING TEACHING ASSISTANT	CUHK-Shenzhen Spring 2025
STA-2001 Probability and Statistics I TEACHING ASSISTANT	CUHK-Shenzhen Fall 2024, Spring 2023
STA-2001H Honours Probability and Statistics I TEACHING ASSISTANT	CUHK-Shenzhen Fall 2022

Skills

Programming	Python, R, \LaTeX
Libraries	PyTorch, scikit-learn, Scanpy, Squidpy
Systems	Familiar with basic Linux commands