

CONTACT INFORMATION	South China University of Technology Guangzhou International Campus Guangzhou, 511442, China 202130131566@mail.scut.edu.cn	Phone:+86-13598800191 Google Scholar Personal Website
RESEARCH SUMMARY	My prior research has focused on information retrieval, text understanding, and applying advanced NLP techniques in interdisciplinary areas. In particular, I have been working on <b>zero-shot text ranking</b> , <b>complex query-based summarization</b> , and <b>social media mental health analysis</b> . As I continue to delve into the realm of LLMs, I would love to continue my research on various LLM-based tasks beyond information understanding and seeking. Additionally, I am keen on creating data-driven solutions that cater to a variety of interdisciplinary fields.	
RESEARCH INTERESTS	information seeking, information understanding, interdisciplinary NLP solutions	
EDUCATION	<b>South China University of Technology, Guangzhou, China</b> B.Eng.(Expected in 2025 fall), Future Technology Department	September 2021 - Present
	<ul style="list-style-type: none"> <li>• Advisor: Prof. s. eng. Lin Shu</li> <li>• GPA: 3.67/4</li> <li>• Main courses: Introduction to Artificial Intelligence (4.00/4.00), Deep Learning and Computer Vision (4.00/4.00), Data Structures (4.00/4.00), Big Data and Data Mining (3.70/4.00), Machine Learning (3.70/4.00), Optimization Methods (4.00/4.00), Discrete Math - Organised by Girton College of Cambridge (4.00/4.00), Probability Theory and Mathematical Statistics (4.00/4.00), Complex Analysis (4.00/4.00) (Not list all due to the space)</li> </ul>	
RESEARCH EXPERIENCE	<b>Tsinghua University, Beijing, China</b>	May 2024 - present
	<ul style="list-style-type: none"> <li>• Visitor, supervisor: Prof. Zhiyuan Liu</li> <li>• Project: LLMs factual retrieval augmented generation</li> </ul>	
	<b>Westlake University, Hangzhou, China</b>	July 2023 - Present
	<ul style="list-style-type: none"> <li>• Visiting Student, supervisor: Prof. Yue Zhang</li> <li>• Participating in the National Natural Science Foundation of China (NSFC) project of Prof. Zhang</li> <li>• Project: Incorporating LLMs for better ranking <ul style="list-style-type: none"> <li>– Incorporating the idea of <b>multi-agent</b> to enhance <b>point-wise ranker</b></li> <li>– Benchmarking LLMs' <b>query based summarization</b> ability based on <b>complex queries</b></li> <li>– Try to prove that <b>natural language feedback</b> can <b>outperform classic label feedback</b> in Human-in-the-Loop (HIL) iteration.</li> <li>– Investigating an <b>iterative text ranking agent</b> that adapts its comprehension of the user's search intent through learning from labels and <b>autonomously calibrating its interpretations</b>.</li> </ul> </li> </ul>	
	<b>South China University of Technology, Guangzhou, China</b>	May 2023 - April 2024
	<ul style="list-style-type: none"> <li>• Project Lead, supervisor: Prof. s. eng. Lin Shu</li> <li>• Project: Design of a Depression Risk Assessment System Based on Psychological Scales and Large Language Models</li> <li>• Grant: National Level College Students' Innovation and Entrepreneurship Training Program, 2023</li> </ul>	
	<b>South China University of Technology, Guangzhou, China</b>	November 2021 - March 2024
	<ul style="list-style-type: none"> <li>• Project Lead, supervisor: Prof. Xiangmin Xu, Principal Researcher Mo Yu</li> <li>• Project: Depression Tendency Analysis Chatbot Based on WeChat Official Accounts</li> <li>• Grant: Guangdong Province Science and Technology Innovation Strategic Special Fund Project, 2022</li> </ul>	
	<b>University of Science and Technology of China, Hefei, China</b>	October 2019 - November 2020
	<ul style="list-style-type: none"> <li>• Visiting Student, mentor: Dr. Yadong Li</li> <li>• Project: A Wearable Device Based on Somatic Interaction Technology</li> </ul>	

PUBLICATIONS  
(\* EQUAL  
CONTRIBUTION)

1. Zero-shot Explainable Mental Health Analysis on Social Media by Incorporating Mental Scales  
**W. Li**, Y. Zhu, X. Lin, M. Li, Z. Jiang, Z. Zeng  
Short Paper of International World Wide Web Conference (WWW), 2024
2. Wearable device based on arm somatosensory interaction technology  
**W. Li**  
Practical Electronics journal (ISSN: 1006-5059), 2021
3. Generating Diverse Criteria On-the-Fly to Improve Pointwise LLM Rankers  
F. Guo\*, **W. Li\***, H. Zhuang, Y. Luo, Y. Li, Q. Zhu, L. Yan, Y. Zhang, COLM 2024 (Under review)
4. AuthorSight-QA: Benchmarking Multi-Scientific-Paper QA in the view of Authors.  
F. Guo\*, **W. Li\***, Y. Zhang, NeurIPS 2024 (Under going)
5. CompQBS: Benchmarking complex query based summarization in scientific texts  
F. Guo\*, **W. Li\***, Y. Zhang, 2024 (Pre-print)

PATENT

1. Wearable device based on arm somatosensory interaction technology  
**W. Li**  
China patent, CN110413126B
2. Somatosensory camera convenient to install  
**W. Li**  
China utility model patent, CN210716640U
3. Depression Risk Assessment Method and System Based on Psychological Scales and AIGC Large Models  
**W. Li**, M. Li, Y. Zhu, X. Lin, J. You, Z. Jiang  
China patent, Application Number: 2024103834530 (Under review)

SCHOLARSHIPS&  
AWARDS

- Third-Class South China University of Technology Scholarship, 2022-2023
- Third-class EXCELLENCE GROUP Enterprise Donated Scholarship, 2022-2023
- Future Innovation Award, Future Technology Taihu Innovation Award by Wuxi government, 2022
- Study Abroad Innovation Award, Future Technology Taihu Innovation Award by Wuxi government, 2022
- First-class Science and Technology Innovation Award, Future Technology Taihu Innovation Award by Wuxi government, 2022
- Third-class Academic Innovation Award, Future Technology Taihu Innovation Award by Wuxi government, 2022
- First-class Hong Ping Chang Qing Fund Student Science and Technology Innovation Competition Scholarship, 2022
- Second-class Hong Ping Chang Qing Fund Student Science and Technology Innovation Competition Scholarship, 2022
- Third-class Hong Ping Chang Qing Fund Student Science and Technology Innovation Competition Scholarship, 2022
- Second Prize, 12th MathorCup College Mathematical Modeling Competition (Undergraduate Group), 2022
- Second Prize, China National Collegiate Mathematics Modeling Competition (Guangdong Provincial Division), 2022
- First Prize, Asia and Pacific Mathematical Contest in Modeling (Undergraduate Group), 2022
- Third-Class South China University of Technology Scholarship, 2021-2022
- Third-class Hua Meng (TCL) Enterprise Donated Scholarship, 2021-2022
- Second Prize, Future Technology - Baidu PaddlePaddle Cup Student Science and Technology Project Competition, 2021

PROFESSIONAL  
SERVICES

- Reviewer for Conference: IJCAI 2024

PROGRAMMING  
SKILLS

- Programming Languages: Python, C/C++, MATLAB, VHDL, Java
- Machine Learning Libraries: Pandas, Matplotlib, PyTorch, TensorFlow, Hugging Face, langchain ...