ZHIXIN MA

(+65) 91418993
zxma@smu.edu.sg
https://zhixinma.github.io

SHORT BIO

MA Zhixin is currently a Research Scientist at Singapore Management University. He earned his Ph.D. from Singapore Management University in 2024 and his Bachelor's degree from Shandong University in 2019. His research interests span multimedia computing and human-in-the-loop interactive systems. His current work focuses on multimodal LLMs and interactive video retrieval.

EXPERIENCE

Research Scientist 2025 - present
Singapore Management University Singapore
- Research area: Visual Reasoning of MLLMs

Research Assistant 2019 - 2020
National University of Singapore Singapore
- Advisor: Prof. Wenqiang Lei & Prof. Tat-Seng Chua
- Research area: Semantic Parsing

EDUCATION

Singapore Management University Singapore
School of Computing and Information Systems
Ph.D. in Computer Science 2020 - 2024
- Advisor: Prof. Chong-Wah Ngo
- Dissertation topic: Interactive Video Search on Large-Scale Corpora

Shandong University Jinan, China
School of Computer Science and Technology
B.E. in Computer Science and Technology (Elite Class) 2015 - 2019
- Advisor: Prof. Tian Gan & Prof. Liqiang Nie

PUBLICATIONS

1. **Zhixin Ma**, Chong-Wah Ngo. Robust Relevance Feedback for Interactive Known-Item Video Search. *ACM International Conference on Multimedia Retrieval*, 2025.

2. Yu-Tong Cheng, Jiaxin Wu, **Zhixin Ma**, Jiangshan He, Xiao-Yong Wei, Chong-Wah Ngo. Interactive Video Search with Multi-modal LLM Video Captioning. *International Conference on Multimedia Modeling*, 2025.

3. **Zhixin Ma**, Jiaxin Wu, Chong-Wah Ngo. Leveraging LLMs and Generative Models for Interactive Known-Item Video Search. *International Conference on Multimedia Modeling*, 2024.

4. Jakub Lokoc, ..., **Zhixin Ma**, Stefanos Vrochidis. Interactive Video Retrieval in the Age of Effective Joint Embedding Deep Models. *Multimedia System*, 2024.

5. **Zhixin Ma**, Jiaxin Wu, Weixiong Loo, Chong-Wah Ngo. Reinforcement Learning Enhanced PicHunter for Interactive Search. *International Conference on Multimedia Modeling*, 2023.

6. **Zhixin Ma**, Chong-Wah Ngo. Interactive Video Corpus Moment Retrieval using Reinforcement Learning. *ACM International Conference on Multimedia*, 2022.
   Oral & Top rated paper award: 13 out of 690 accepted papers (1.88%)

7. **Zhixin Ma**, Jiaxin Wu, Zhijian Hou, Chong-Wah Ngo. Reinforcement Learning-Based Interactive Video Search. *International Conference on Multimedia Modeling*, 2022.

8. Wenqiang Lei, Weixin Wang, **Zhixin Ma**, Tian Gan, Wei Lu, Min-Yen Kan and Tat-Seng Chua. Re-examining the Role of Schema Linking Text-to-SQL. *EMNLP*, 2020.

AWARDS AND HONORS	• **Presidential Doctoral Fellowship**, Singapore Management University	2023
	• **Dean's List**, Singapore Management University	2023
	• **The Second Runner-up**, Video Browsing Showdown	2023
	• **Top Rated Paper Award**, ACM Multimedia	2022
	• **Student Travel Grant**, ACM Multimedia	2022
	• **The Second Runner-up**, Video Browsing Showdown	2021

ACADEMIC SERVICES

- **Invited Reviewer**: IEEE Transactions on Multimedia (TMM), ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM), IEEE Transactions on Knowledge and Data Engineering (TKDE), IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), ACM Transactions on the Web (TWeb), ACM Transactions on Intelligent Systems and Technology (TIST), ACM International Conference on Multimedia (MM), Annual Meeting of the Association for Computational Linguistics (ACL), Empirical Methods in Natural Language Processing (EMNLP)
- **Volunteer**: ACM Multimedia 2022, WWW 2024

TEACHING ASSISTANT	• SMT481: Smart-City Operations Research	AY2024
	• IS446: Managing Customer Relations with Analytics: Asian Insights	AY2023
	• CS702: Computational Interaction	AY2022
	• CS601: Introduction to Artificial Intelligence	AY2021