

# SONGSONG MO

Nanyang Technological University ◊ Singapore  
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## EDUCATION

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- Nanyang Technological University, Singapore** *August 2022 - Present*  
PhD student of Computer Science
- Wuhan University, China** *September 2018 - June 2021*  
Master of Computer Science
- Wuhan University, China** *September 2014 - June 2018*  
Bachelor of Computer Science  
Overall GPA: 3.6/4.0

## EXPERIENCES

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- Alibaba-NTU JRI, NTU, Singapore** *March 2022 - Present*  
*Research Associate*
- Leveraging AI technology to accelerate database management systems.
- Zhejiang Lab, China** *August 2021 - March 2022*  
*Research Intern*
- Leveraging AI technology to accelerate database management systems.
- Noah Ark Lab, Huawei, China** *July 2020 - October 2020*  
*Research Intern*
- Design and implement hybrid programming algorithm for large scale production planning.
- RMIT University, Australia** *August 2019 - October 2019*  
*Visiting Student*
- Exploit user movement data to enhance passengers' satisfaction via optimizing the network-wide public transport time schedule.
- RMIT University, Australia** *December 2018 - March 2019*  
*Visiting Student*
- Towards an optimal city-wide deployment of advertisement (for influence maximization).

## PUBLICATIONS

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- **Mo, S.**, Bao, Z., Zhang, P., Peng, Z.. Towards an efficient cost-aware random walk domination[C], Proceedings of the VLDB Endowment (**PVLDB**), 2021.
- **Mo, S.**, Bao, Z., Zheng, B., Peng, Z., Towards an Optimal Bus Frequency Scheduling: When the Waiting Time Matters[J], Transactions on Knowledge and Data Engineering (**TKDE**), 2020.
- **Mo, S.**, Bao, Z., Zheng, B., Peng, Z., FASTS: A Satisfaction-Boosting Bus Scheduling Assistant, Proceedings of the VLDB Endowment (**PVLDB**), 13(12), 2873–2876, 2020. (Demo paper)
- **Mo, S.**, Bao, Z., Zheng, B., Peng, Z., Bus frequency optimization: When waiting time matters in user satisfaction[C], in Database Systems for Advanced Applications (**DASFAA**), Lecture Notes in Computer Science, vol 12113, 192-208, 2020.

- Tian S., **Mo, S.**, Wang L., Peng, Z., Deep Reinforcement Learning-Based Approach to Tackle Topic-Aware Influence Maximization[J], *Data Sci. Eng.* 5, 1–11, 2020.
- **Mo, S.**, Tian, S., Li, W., Peng, Z., Minimizing the spread of rumor in online network within budget constraint[C], in *National Conference of Theoretical Computer Science, Communications in Computer and Information Science*, vol 1069, 131-149, 2019.
- Zhang, Y., Li, Y., Bao, Z., **Mo, S.**, Zhang, P., Optimizing impression counts for outdoor advertising[C], in *Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD)*, 1205–1215, 2019. (**Best paper runner up**)
- Zhang, Y., Bao, Z., **Mo, S.**, Li, Y., Zhou, Y., ITAA: An intelligent trajectory-driven outdoor advertising deployment assistant, *Proceedings of the VLDB Endowment (VLDB)*, 12(12), 1790-1793, 2019. (Demo paper)
- Tian, S., Zhang, P., **Mo, S.**, Wang, L., Peng, Z., A Learning Approach for Topic-aware Influence Maximization[C], in *APWEB-WAIM, Lecture Notes in Computer Science*, vol 11641, 125-140, 2019.
- Zhang, P., Bao, Z., Niu, Y., Zhang, Y., **Mo, S.**, Geng, F., Peng, Z., Proactive rumor control in online networks[J], *World Wide Web (WWWJ)* 22, 1799–1818, 2019.