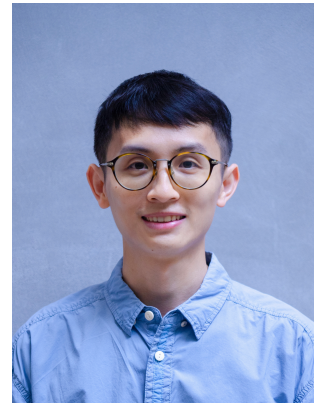


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**Education**

PhD, Chinese University of Hong Kong, China, 2023

Master of Science, Peking University, China, 2019

Bachelor of Engineering, Beijing University of Posts & Telecommunications, China, 2016

**Academic Appointments**

Assistant Professor of Computer Science, School of Computing and Information Systems, SMU, Jul 2024 - Present

Research Fellow, National University of Singapore, Singapore, Apr 2023 - Jun 2024

**Awards and Honors**

Outstanding Area Chairs, EMNLP 2024, 2024

Google South Asia & Southeast Asia Research Awards, Google, 2024

**RESEARCH**

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**Publications**Journal Articles [Refereed]

A comprehensive survey on relation extraction: Recent advances and new frontiers, by ZHAO, Xiaoyan; DENG, Yang; YANG, Min; WANG, Lingzhi; ZHANG, Rui; CHENG, Hong; LAM, Wai; SHEN, Ying; XU, Ruifeng. (2024). *ACM Computing Surveys*, 56 (11), 1-39. <https://doi.org/10.1145/3674501> (Published)

Nonfactoid question answering as query-focused summarization with graph-enhanced multihop inference, by DENG, Yang; ZHANG, Wenxuan; XU, Weiwen; SHEN, Ying; LAM, Wai. (2024). *IEEE Transactions on Neural Networks and Learning Systems*, 35 (8), 11231-11245. <https://doi.org/10.1109/TNNLS.2023.3258413> (Published)

A unified framework for contextual and factoid question generation, by DONG, Chenhe; SHEN, Ying; LIN, Shiyang; LIN, Zhenzhou; DENG, Yang. (2024). *IEEE Transactions on Knowledge and Data Engineering*, 36 (1), 21-34. <https://doi.org/10.1109/TKDE.2023.3280182> (Published)

A survey on aspect-based sentiment analysis: Tasks, methods, and challenges, by ZHANG, Wenxuan; LI,

Xin; DENG, Yang; BING, Lidong; LAM, Wai. (2023). *IEEE Transactions on Knowledge and Data Engineering*, 35 (11), 11019-11038. <https://doi.org/10.1109/TKDE.2022.3230975> (Published)

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### Conference Proceedings

Unlocking markets: A multilingual benchmark to cross-market question answering, by YUAN, Yifei; DENG, Yang; SOGAARD, Anders; ALLIANNEJADI, Mohammad . (2024.0). *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing, Florida, USA, November 12-16*, Texas: ACL. (Published)

Experience as source for anticipation and planning : Experiential policy learning for target-driven recommendation dialogues, by DAO, Huy; DENG, Yang; BUI, Khanh-Huyen; LE, Dung D.; LIAO, Lizi. (2024.0). *Proceedings of the 19th Conference on Empirical Methods in Natural Language Processing (EMNLP 2024) : Miami, Florida, USA, November 12-16*, (pp. 14179-14198) USA: Association for Computational Linguistics. (Published)

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Beyond persuasion : towards conversational recommender system with credible explanations, by QIN, Peixin; HUANG, Chen; DENG, Yang; LEI, Wenqiang; CHUA, Tat-Seng. (2024.0). *Proceedings of the 19th Conference on Empirical Methods in Natural Language Processing (EMNLP 2024) : Miami, Florida, USA, November 12-16*, (pp. 4264-4282) USA: Association for Computational Linguistics. (Published)

Ask-before-plan : proactive language agents for real-world planning, by ZHANG, Xuan; DENG, Yang; REN, Zifeng; NG, See-Kiong; CHUA, Tat-Seng. (2024.0). *Proceedings of the Conference on Empirical Methods in Natural Language Processing 19th EMNLP 2024 : Miami, Florida, USA, November 12-16*, (pp. 10836-10863) USA: Association for Computational Linguistics. (Published)

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Self-chats from large language models make small emotional support chatbot better, by ZHENG, Zhonghua; LIAO, Lizi; DENG, Yang; QIN, Libo; NIE, Liqiang. (2024.0). *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics, Bangkok, Thailand, 2024 August 11-16*, (pp. 11325-11345) USA: ACL. <https://aclanthology.org/2024.acl-long.611> (Published)

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WatME: Towards lossless watermarking through lexical redundancy, by CHEN, Liang; BIAN, Yatao; DENG, Yang; CAI, Deng; LI, Shuaiyi; ZHAO, Peilin; WONG, Kam-Fai. (2024.0). *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics, Bangkok, Thailand, 2024 August 11-16*, (pp. 9166-9180) USA: ACL. <https://aclanthology.org/2024.acl-long.496> (Published)

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Plug-and-play policy planner for large language model powered dialogue agents, by DENG, Yang; ZHANG, Wenxuan; LAM, Wai; NG, See-Kiong; CHUA, Tat-Seng. (2024.0). *Proceedings of The Twelfth International Conference on Learning Representations, Vienna, Austria, 2024 May 7-11*, (pp. 1-33) USA: ICLR. <https://openreview.net/forum?id=MCNqgUFTHI> (Published)

Cue-CoT: Chain-of-thought prompting for responding to in-depth dialogue questions with LLMs, by WANG, Hongru; WANG, Rui; MI, Fei; DENG, Yang; WANG, Zezhong; LIANG, Bin; XU, Ruifeng; WONG, Kam-Fai. (2023.0). *Proceeding of the 2023 Findings of the Association for Computational Linguistics, Singapore, December 6-10*, (pp. 12047-12064) USA: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.findings-emnlp.806> (Published)

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Prompting and evaluating large language models for proactive dialogues: Clarification, target-guided, and non-collaboration, by DENG, Yang; LIAO, Lizi; CHEN, Liang; WANG, Hongru; LEI, Wenqiang; CHUA, Tat-Seng. (2023.0). *Proceeding of the 2023 Findings of the Association for Computational Linguistics, Singapore, December 6-10*, (pp. 10602-10621) Texas: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.findings-emnlp.711> (Published)

DepWiGNN: A depth-wise graph neural network for multi-hop spatial reasoning in text, by LI, Shuaiyi; DENG, Yang; LAM, Wai. (2023.0). *Proceeding of the 2023 Findings of the Association for Computational Linguistics, Singapore, December 6-10*, (pp. 6459-6471) USA: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.findings-emnlp.428> (Published)

Beyond factuality: A comprehensive evaluation of large language models as knowledge generators, by CHEN, Liang; DENG, Yang; BIAN, Yatao; QIN, Zeyu; WU, Bingzhe; CHUA, Tat-Seng; WONG, Kam-Fai. (2023.0). *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing, Singapore, December 6-10*, (pp. 6325-6341) Texas: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.emnlp-main.390> (Published)

Unifying text, tables, and images for multimodal question answering, by LUO, Haohao; SHEN, Ying; DENG, Yang. (2023.0). *Proceeding of the 2023 Findings of the Association for Computational Linguistics, Singapore, December 6-10*, (pp. 9355-9367) Texas: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.findings-emnlp.626> (Published)

Rethinking conversational agents in the era of LLMs: Proactivity, non-collaborativity, and beyond, by DENG, Yang; LEI, Wenqiang; HUANG, Minlie; CHUA, Tat-Seng. (2023.0). *SIGIR-AP '23: Proceedings of the 11th International ACM SIGIR Conference on Research and Development in Information Retrieval in the Asia Pacific Region, Beijing, November 26-28*, (pp. 298-301) New York: ACM. <https://doi.org/10.1145/3624918.3629548> (Published)

Multimodal fashion knowledge extraction as captioning, by YUAN, Yifei; ZHANG, Wenxuan; DENG, Yang; LAM, Wai. (2023.0). *SIGIR-AP '23: Proceedings of the 11th International ACM SIGIR Conference on Research and Development in Information Retrieval in the Asia Pacific Region, Beijing, November 23-28*, (pp. 52 -62) New York: ACM. <https://doi.org/10.1145/3624918.3625315> (Published)

A survey on proactive dialogue systems: Problems, methods, and prospects, by DENG, Yang; LEI, Wenqiang; LAM, Wai; CHUA, Tat-Seng. (2023.0). *Proceedings of the Thirty-Second International Joint Conference on Artificial Intelligence, Macao, 2023 August 19-25*, (pp. 6583-6591) California: IJCAI. <https://doi.org/10.24963/ijcai.2023/738> (Published)

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Product question answering in e-commerce: A survey, by DENG, Yang; ZHANG, Wenxuan; YU, Qian; LAM, Wai. (2023.0). *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, 2023 July 9-14*, (pp. 11951-11964) USA: Association for Computational Linguistics. (Published)

Goal awareness for conversational AI: Proactivity, non-collaborativity, and beyond, by DENG, Yang; LEI, Wenqiang; HUANG, Minlie; CHUA, Tat-Seng. (2023.0). *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, 2023 July 9-14*, (pp. 1-10) USA: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.acl-tutorials.1> (Published)

Towards robust personalized dialogue generation via order-insensitive representation regularization, by CHEN, Liang; WANG, Hongru; DENG, Yang; KWAN, Wai-Chung; WANG, Zezhong; WONG, Kam-Fai. (2023.0). *Proceedings of the 2023 Findings of the Association for Computational Linguistics, Toronto, Canada, July 9-14*, (pp. 7337-7345) USA: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.findings-acl.462> (Published)

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Knowledge-enhanced mixed-initiative dialogue system for emotional support conversations, by DENG, Yang; ZHANG, Wenxuan; YUAN, Yifei; LAM, Wai. (2023.0). *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, 2023 July 9-14*, (pp. 4079-4095) USA: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.acl-long.225> (Published)

ConReader: Exploring implicit relations in contracts for contract clause extraction, by XU, Weiwen; DENG, Yang; LEI, Wenqiang; ZHAO, Wenlong; CHUA, Tat-Seng; LAM, Wai. (2022.0). *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing, Abu Dhabi, United Arab Emirates, December 7-11*, (pp. 2581-2594) Texas: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2022.emnlp-main.166> (Published)

PACIFIC: Towards proactive conversational question answering over tabular and textual data in finance, by DENG, Yang; LEI, Wenqiang; ZHANG, Wenxuan; LAM, Wai; CHUA, Tat-Seng. (2022.0). *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing, Abu Dhabi, United Arab Emirates, December 7-11*, (pp. 6970-6984) Texas: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2022.emnlp-main.469> (Published)

User satisfaction estimation with sequential dialogue act modeling in goal-oriented conversational systems, by DENG, Yang; ZHANG, Wenxuan; LAM, Wai; CHENG, Hong; MENG, Helen. (2022.0). *WWW '22: Proceedings of the ACM Web Conference 2022, Virtual Conference, April 25-29*, (pp. 2998-3008) New York: ACM. <https://doi.org/10.1145/3485447.3512020> (Published)

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Exploiting reasoning chains for multi-hop science question answering, by XU, Weiwen; DENG, Yang; ZHANG, Huihui; CAI, Deng; LAM, Wai. (2021.0). *Proceedings of the Findings of the Association for Computational Linguistics, EMNLP 2021, Punta Cana, Dominican Republic, November 7-11*, (pp. 1143-1156) Texas: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2021.findings-emnlp.99> (Published)

Aspect sentiment quad prediction as paraphrase generation, by ZHANG, Wenxuan; DENG, Yang; LI, Xin; YUAN, Yifei; BING, Lidong; LAM, Wai. (2021.0). *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing, Virtual Conference, November 7-11*, (pp. 9209-9219) USA: Association for Computational Linguistics. (Published)

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Towards generative aspect-based sentiment analysis, by ZHANG, Wenxuan; LI, Xin; DENG, Yang; BING, Lidong; LAM, Wai. (2021.0). *Proceedings of the ACL-IJCNLP 2021: 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing, Virtual, August 1-6*, (pp. 504-510) Texas: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2021.acl-short.64> (Published)

Unified conversational recommendation policy learning via graph-based reinforcement learning, by DENG, Yang; LI, Yaliang; SUN, Fei; DING, Bolin; LAM, Wai. (2021.0). *SIGIR '21: Proceedings of the 44th International ACM SIGIR Conference on Research and Development in Information Retrieval, Virtual Conference, July 11-15*, (pp. 1431-1441) New York: ACM. <https://doi.org/10.1145/3404835.3462913>

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AnswerFact: Fact checking in product question answering, by ZHANG, Wenxuan; DENG, Yang; MA, Jing; LAM, Wai. (2020.0). *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing, Virtual Conference, November 16-20*, (pp. 2407-2417) USA: Association for Computational Linguistics. <https://doi.org/10.18653/v1/2020.emnlp-main.188> (Published)

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Opinion-aware answer generation for review-driven question answering in e-commerce, by DENG, Yang; ZHANG, Wenxuan; LAM, Wai. (2020.0). *CIKM '20: Proceedings of the 29th ACM International Conference on Information & Knowledge Management, Virtual Conference, October 19-23*, (pp. 255-264) New York: ACM. <https://doi.org/10.1145/3340531.3411904> (Published)

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Answer ranking for product-related questions via multiple semantic relations modeling, by ZHANG, Wenxuan; DENG, Yang; LAM, Wai. (2020.0). *Proceedings of the 43rd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Virtual, Online, 2020 Jul 25-30*, (pp. 569-578) New York: ACM. <https://doi.org/10.1145/3397271.3401166> (Published)

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Multi-task learning with multi-view attention for answer selection and knowledge base question answering, by DENG, Yang; XIE, Yuexiang; LI, Yaliang; YANG, Min; DU, Nan; FAN, Wei; LEI, Kai; SHEN, Ying. (2019.0). *Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence, Honolulu, Hawaii, 2019 January 27 - February 1*, (pp. 6318-6325) USA: AAAI Press. <https://doi.org/10.1609/AAAI.V33I01.33016318> (Published)

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## Research Grants

Singapore Management University

Proactive Conversational Agents for Real-world Planning, SMU Internal Grant, Ministry of Education (MOE)

Tier 1 , PI (Project Level): DENG Yang, 2024, S\$119,980

Robust and Efficient Alignment for Integrity in Conversational Agents, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): DENG Yang, 2024, S\$241,000

## TEACHING

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### Courses Taught

Singapore Management University

Postgraduate Professional Programmes :

Natural Language Processing for Smart Assistants

Postgraduate Research Programmes :

Empirical Research Project 4

## OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES

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### Other Grants and Funding Received (Non-Research)

Google South Asia & Southeast Asia Research Awards, Google, Nov 2024

## EXTERNAL SERVICE – PROFESSIONAL

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Program Chair, SSNLP 2024, 2024

Area Chair, NAACL 2025, 2024

Area Chair, COLING 2025, 2024

Area Chair, EMNLP 2024, 2024

Area Chair, ACL 2024, 2024