

LIANGMING PAN (潘亮铭)

Tenure-Track Assistant Professor
School of Computer Science, Peking University

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 [Google Scholar](#)  [Twitter](#)  [GitHub](#)

WORK EXPERIENCE

Sep. 2025 – Present

Assistant Professor, [School of Computer Science, Peking University](#)

Beijing, China

- Research Topic: Trustworthy Large Language Models, Natural Language Processing

Aug. 2024 – Aug. 2025

Assistant Professor, [College of Information Science, University of Arizona](#)

Tucson, Arizona, United States

- Research Topic: Trustworthy Large Language Models, Natural Language Processing

Dec. 2022 – Jul. 2024

Postdoctoral Researcher, [UC Santa Barbara Natural Language Processing Group \(UCSB-NLP\)](#)

Santa Barbara, California, United States

- Advisor: Prof. [William Yang Wang](#)
- Research Topic: Towards Responsible Large Language Models

Aug. 2022 – Dec. 2022

Research Fellow, [NUS Center for Trusted Internet and Community \(CTIC\)](#)

National University of Singapore, Singapore

- Advisor: Prof. [Mongli Lee](#)
- Research Topic: Automated Fact-Checking

EDUCATION

Jan. 2018 – May. 2022

Ph.D., Integrative Sciences and Engineering Programme (ISEP)

National University of Singapore, Singapore

- Degree: Doctor of Philosophy
- Major: Computer Science

- Supervisor: Associate Prof. [Min-Yen Kan](#), Co-Supervisor: Prof. [Tat-Seng Chua](#)
- Year degree received: June, 2022
- Thesis Topic: Towards Generating Deep Questions from Text

Aug. 2020 – Jun. 2021

Visiting Ph.D. Student, UC Santa Barbara Natural Language Processing Group (UCSB-NLP)
Santa Barbara, California, United States

- Advisor: Prof. [William Yang Wang](#)
- Research Topic: Unsupervised Multi-hop Question Answering by Question Generation

Sep. 2014 – Jun. 2017

Master's Degree, Computer Science and Technology
Tsinghua University, Beijing, China

- Degree: Master of Engineering
- Major: Computer Science and Technology
- Supervisor: Prof. [Juanzi Li](#), and Prof. [Jie Tang](#)
- Thesis Topic: Course Concept Extraction and Relation Learning in Massive Open Online Courses (MOOCs)

Sep. 2010 – Jun. 2014

Bachelor's Degree, Software Engineering
Beihang University, Beijing, China

- Degree: Bachelor of Engineering
- Major: Software Engineering

INVITED AND CONFERENCE TALKS

- | | | |
|------------------|--|--------------------------|
| Aug. 2025 | Invited talk, AI4MATH Workshop @ ICML 2025 | |
| Sep. 2024 | CS Colloquium Talk, University of Arizona, USA | |
| Jul. 2024 | Invited Talk, Peking University, China | |
| Jul. 2024 | Invited Talk, Tsinghua University, China | |
| Jun. 2024 | Invited Talk, Harbin Institute of Technology (Shenzhen), China | |
| May. 2024 | Invited Talk, Xi'an Jiaotong University, China | |
| Mar. 2024 | Invited Talk, University of Arizona, USA | |
| Feb. 2024 | Invited Talk, Singapore Management University, Singapore | |
| Feb. 2024 | Invited Talk, University of California Merced, USA | |
| Jan. 2024 | Invited Talk, Arizona State University, USA | |
| Dec. 2023 | Invited Talk, National University of Singapore | [Slides] |
| Dec. 2023 | Poster Presentation, EMNLP 2023, Singapore | |
| Nov. 2023 | Invited Talk, Sichuan University | |

Nov. 2023	Oral Presentation, IJCNLP-AAACL 2023, Bali	
Jul. 2023	Poster Presentation, ACL 2023, Toronto, Canada	[Abstract] [Slides]
Feb. 2023	Invited Talk, Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)	
Apr. 2022	Invited Talk, Singapore Management University	
Mar. 2022	Invited Talk, deeplearning.ai	[Abstract] [Slides]
Aug. 2021	Invited Talk, Nanyang Technological University	[Abstract] [Slides] [Video]
Aug. 2021	Oral Presentation, ACL-IJCNLP 2021, Online	[Presentation] [Slides]
Jun. 2021	Oral Presentation, NAACL 2021, Online	[Presentation]
Feb. 2021	Invited Talk, National University of Singapore	[Abstract]
Oct. 2020	Oral Presentation, ACM MM 2020, Online	
Aug. 2020	Invited Talk, Fudan University, Shanghai, China	
Jul. 2020	Oral Presentation, ACL 2020, Online	[Presentation]

RESEARCH GRANTS AND AWARDS

1. Proposal Co-Writer, 2023 CISCO Faculty Research Award, \$80K USD. Neuro-Symbolic Methods for Abductive Reasoning. *Awarded.*
2. Proposal Co-Writer, 2023 Google Deepmind Award, \$100K. Context, Knowledge, and Uncertainty: A Unified Reasoning & Discovery Framework (extension 2). *Awarded.*
3. Proposal Co-Writer, 2023 JP Morgan Chase Faculty Award, \$80K. Augmented Large Language Models for Automating Cognitive Workflows. *Awarded.*

HONORS AND AWARDS

	SAC Highlights Award
Jul. 2025	ACL 2025 (Top 47 out of 3091; Award Rate: 1.5%)
	Best Paper Award (Runner-up)
Dec. 2024	3rd Table Representation Learning Workshop @ NeurIPS 2024 (Top 3 out of 59; Award Rate: 5.1%)
	Area Chair Award (Question Answering)
Nov. 2023	IJCNLP-AAACL 2023 (Top 13 out of 131; Award Rate: 9.9%)
	Dean's Graduate Research Excellence Award
Jan. 2021	School of Computing, National University of Singapore (Award Rate: less than 2%)
	Research Achievement Reward
Oct. 2020	School of Computing, National University of Singapore

(Award Rate: less than 5%)

	Excellent Master Graduate Student
Jun. 2017	Department of Computer Science, Tsinghua University (Award Rate: less than 5%)
Oct. 2016	First prize of 'Friends of Tsinghua — Renrendai scholarship' (Award Rate: less than 10%)
Apr. 2013	Meritorious Winner of Mathematical Contest in Modeling

TEACHING EXPERIENCE

	Main Instructor
Spring 2025	INFO 621 - Advanced Machine Learning Applications College of Information Science, University of Arizona
	Main Instructor
Fall 2025	INFO 523 - Data Mining and Discovery College of Information Science, University of Arizona
	Guest Lecturer
Winter. 2023	CS165B - Machine Learning University of California, Santa Barbara

FULL PUBLICATION LIST

2025

1. Minglai Yang, Ethan Huang, Liang Zhang, Mihai Surdeanu, William Wang, and **Liangming Pan***. [How Is LLM Reasoning Distracted by Irrelevant Context? An Analysis Using a Controlled Benchmark](#). Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2025**) (*: corresponding author)
2. Razvan-Gabriel Dumitru, Darius Peteleaza, Vikas Yadav, and **Liangming Pan***. [ConciseRL: Conciseness-Guided Reinforcement Learning for Efficient Reasoning Models](#). Findings of the 2025 Conference on Empirical Methods in Natural Language Processing (**Findings of EMNLP 2025**) (*: corresponding author)
3. Xiaobao Wu, **Liangming Pan**, Yuxi Xie, Ruiwen Zhou, Shuai Zhao, Yubo Ma, Mingzhe Du, Rui Mao, Anh Tuan Luu, and William Yang Wang. [AntiLeak-Bench: Preventing Data Contamination by Automatically Constructing Benchmarks with Updated Real-World Knowledge](#). Proceedings of the Annual Meeting of the Association for Computational Linguistics (**ACL 2025**) 🏆 (**SAC Highlights Awards**)
4. Zijun Yao, Weijian Qi, **Liangming Pan**, Shulin Cao, Linmei Hu, Weichuan Liu, Lei Hou, and Juanzi Li. [SeaKR: Self-aware Knowledge Retrieval for Adaptive Retrieval Augmented Generation](#). Proceedings of the Annual Meeting of the Association for Computational Linguistics (**ACL 2025**)

5. Jundong Xu, Hao Fei, Meng Luo, Qian Liu, **Liangming Pan**, William Yang Wang, Preslav Nakov, Mong-Li Lee, and Wynne Hsu. [Aristotle: Mastering Logical Reasoning with A Logic-Complete Decompose-Search-Resolve Framework](#). Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL 2025)
6. Ruiwen Zhou, Wenyue Hua, **Liangming Pan**, Sitao Cheng, Xiaobao Wu, En Yu, and William Yang Wang. [RuleArena: A Benchmark for Rule-Guided Reasoning with LLMs in Real-World Scenarios](#). Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL 2025)
7. Xunjian Yin, Xinyi Wang, **Liangming Pan**, Xiaojun Wan, and William Yang Wang. [Gödel Agent: A Self-Referential Agent Framework for Recursive Self-Improvement](#). Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL 2025)
8. Wenyue Hua, Tyler Wong, Sun Fei, **Liangming Pan**, Adam Jardine, and William Yang Wang. [InductionBench: LLMs Fail in the Simplest Complexity Class](#). Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL 2025)
9. Sitao Cheng, **Liangming Pan***, Xunjian Yin, Xinyi Wang, and William Yang Wang. [Understanding the Interplay between Parametric and Contextual Knowledge for Large Language Models](#). In ACL Workshop on Towards Knowledgeable Foundation Models (KnowFM@ACL25) (*: Corresponding Author)
10. Fengbin Zhu, Junfeng Li, **Liangming Pan***, Wenjie Wang, Fuli Feng, Chao Wang, Huanbo Luan, and Tat-Seng Chua. [FinTMMBench: Benchmarking Temporal-Aware Multi-Modal RAG in Finance](#). Proceedings of the ACM International Conference on Multimedia (ACM MM 2025) (*: Corresponding Author)
11. Longxuan Yu, Delin Chen, Siheng Xiong, Qingyang Wu, Qingzhen Liu, Dawei Li, Zhikai Chen, Xiaoze Liu, and **Liangming Pan**. [Improving Causal Reasoning in Large Language Models: A Survey](#). Proceedings of the 2025 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2025)
12. Kyle Wong, Alfonso Amayuelas, **Liangming Pan**, and William Yang Wang. [DistiLRR: Transferring Code Repair for Low-Resource Programming Languages](#). Findings of the 2025 Annual Conference of the North American Chapter of the Association for Computational Linguistics (Findings of NAACL 2025)
13. Shengqiong Wu, Hao Fei, **Liangming Pan**, William Yang Wang, Shuicheng Yan, and Tat-Seng Chua. [Combating Multimodal LLM Hallucination via Bottom-Up Holistic Reasoning](#). Proceedings of the 39th AAAI Conference on Artificial Intelligence (AAAI 2025)

2024

14. **Liangming Pan**, Michael Saxon, Wenda Xu, Deepak Nathani, Xinyi Wang, and William Yang Wang. [Automatically Correcting Large Language Models: Surveying the Landscape of Diverse Automated Correction Strategies](#). Transactions of the Association for Computational Linguistics (TACL), 2024.

15. Xinyuan Lu, **Liangming Pan***, Yubo Ma, Preslav Nakov, and Min-Yen Kan. [TART: An Open-Source Tool-Augmented Framework for Explainable Table-based Reasoning](#). In *the 3rd NeurIPS Workshop on Table Representation Learning Workshop (TRL@NeurIPS, 2024)* (**Best Paper Runner-up, Top 3 out of 59**) (*: corresponding author)
16. Alon Albalak, Yanai Elazar, Sang Michael Xie, Shayne Longpre, Nathan Lambert, Xinyi Wang, Niklas Muennighoff, Bairu Hou, **Liangming Pan**, Haewon Jeong, Colin Raffel, Shiyu Chang, Tatsunori Hashimoto, and William Yang Wang. [A Survey on Data Selection for Language Models](#). *Transactions on Machine Learning Research (TMLR)*, 2024
17. Yubo Ma, Yuhang Zang, Liangyu Chen, Meiqi Chen, Yizhu Jiao, Xinze Li, Xinyuan Lu, Ziyu Liu, Yan Ma, Xiaoyi Dong, Pan Zhang, **Liangming Pan**, Yu-Gang Jiang, Jiaqi Wang, Yixin Cao, and Aixin Sun. [MMLongBench-Doc: Benchmarking Long-context Document Understanding with Visualizations](#). *Proceedings of the Annual Conference on Neural Information Processing Systems (NeurIPS 2024)* (Dataset and Benchmark Track) (**Spotlight Paper**)
18. Xiaobao Wu, **Liangming Pan**, William Yang Wang, and Anh Tuan Luu. [AKEW: Assessing Knowledge Editing in the Wild](#). *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)*
19. Yubo Ma, Zhibin Gou, Junheng Hao, Ruochen Xu, Shuohang Wang, **Liangming Pan**, Yujiu Yang, Yixin Cao, Aixin Sun, Hany Awadalla, and Weizhu Chen. [SciAgent: Tool-augmented Language Models for Scientific Reasoning](#). *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)*
20. Xianjun Yang, **Liangming Pan**, Xuandong Zhao, Haifeng Chen, Linda Petzold, William Yang Wang, and Wei Cheng. [A Survey on Detection of LLMs-Generated Content](#). *Findings of the 2024 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP 2024)*
21. Alfonso Amayuelas, Xianjun Yang, Antonis Antoniadis, Wenyue Hua, **Liangming Pan**, and William Wang. [MultiAgent Collaboration Attack: Investigating Adversarial Attacks in Large Language Model Collaborations via Debate](#). *Findings of the 2024 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP 2024)*
22. Yuxia Wang, Revanth Gangi Reddy, Zain Muhammad Mujahid, Arnav Arora, Aleksandr Rubashevskii, Jiahui Geng, Osama Mohammed Afzal, **Liangming Pan**, Nadav Borenstein, Aditya Pillai, Isabelle Augenstein, Iryna Gurevych, and Preslav Nakov. [Factcheck-Bench: Fine-Grained Evaluation Benchmark for Automatic Fact-checkers](#). *Findings of the 2024 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP 2024)*
23. Jundong Xu, Hao Fei, **Liangming Pan**, Qian Liu, Mong-Li Lee, and Wynne Hsu. [Faithful Logical Reasoning via Symbolic Chain-of-Thought](#). *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL 2024)*
24. Wenda Xu, Guanglei Zhu, Xuandong Zhao, **Liangming Pan**, Lei Li, and William Yang Wang. [Pride and Prejudice: LLM Amplifies Self-Bias in Self-Refinement](#). *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL 2024)*

25. Alfonso Amayuelas, Kyle Wong, **Liangming Pan**, Wenhui Chen, and William Yang Wang. [Knowledge of Knowledge: Exploring Known-Unknowns Uncertainty with Large Language Models](#). Findings of the Annual Meeting of the Association for Computational Linguistics (Findings of ACL 2024)
26. Shuo Zhang, **Liangming Pan**, Junzhou Zhao, and William Yang Wang. [The Knowledge Alignment Problem: Bridging Human and External Knowledge for Large Language Models](#). Findings of the Annual Meeting of the Association for Computational Linguistics (Findings of ACL 2024)
27. Xinze Li, Yixin Cao, **Liangming Pan**, Yubo Ma, and Aixin Sun. [Towards Verifiable Generation: A Benchmark for Knowledge-aware Language Model Attribution](#). Findings of the Annual Meeting of the Association for Computational Linguistics (Findings of ACL 2024)
28. Xiaobao Wu, Xinshuai Dong, **Liangming Pan**, Thong Nguyen, and Anh Tuan Luu. [Modeling Dynamic Topics in Chain-Free Fashion by Evolution-Tracking Contrastive Learning and Unassociated Word Exclusion](#). Findings of the Annual Meeting of the Association for Computational Linguistics (Findings of ACL 2024)
29. Xinyi Wang, Alfonso Amayuelas, Kexun Zhang, **Liangming Pan**, Wenhui Chen, and William Yang Wang. [Understanding Reasoning Ability of Language Models From the Perspective of Reasoning Paths Aggregation](#). Proceedings of the International Conference on Machine Learning (ICML 2024)
30. Iain Xie Weissburg, Mehdi Arora, Xinyi Wang, **Liangming Pan**, and William Yang Wang. [Tweets to Citations: Unveiling the Impact of Social Media Influencers on AI Research Visibility](#). Proceedings of the International Conference on Machine Learning (ICML 2024)

2023

31. Xinyuan Lu*, **Liangming Pan***, Qian Liu, Preslav Nakov, Min-Yen Kan. [SCITAB: A Challenging Benchmark for Compositional Reasoning and Claim Verification on Scientific Tables](#). Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023) (*equal contribution)
32. **Liangming Pan**, Alon Albalak, Xinyi Wang, William Yang Wang. [Logic-LM: Empowering Large Language Models with Symbolic Solvers for Faithful Logical Reasoning](#). Findings of the 2023 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP 2023)
33. Yikang Pan*, **Liangming Pan***, Wenhui Chen, Preslav Nakov, Min-Yen Kan, William Yang Wang. [On the Risk of Misinformation Pollution with Large Language Models](#). Findings of the 2023 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP 2023) (*equal contribution)
34. Wenda Xu, Danqing Wang, **Liangming Pan**, Zhenqiao Song, Markus Freitag, William Yang Wang, Lei Li. [INSTRUCTSCORE: Towards Explainable Text Generation Evaluation with Automatic Feedback](#). Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023)

35. Deepak Nathani, David Wang, **Liangming Pan**, William Yang Wang. [MAF: Multi-Aspect Feedback for Improving Reasoning in Large Language Models](#). Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023)
36. Shizhe Diao, Yongyu Lei, **Liangming Pan**, Tianqing Fang, Wangchunshu Zhou, Sedrick Scott Keh, Min-Yen Kan, Tong Zhang. [Doolittle: Benchmarks and Corpora for Academic Writing Formalization](#). Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023)
37. **Liangming Pan**, Xinyuan Lu, Min-Yen Kan, Preslav Nakov. [QACHECK: A Demonstration System for Question-Guided Multi-Hop Fact-Checking](#). Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing System Demonstrations Track (EMNLP 2023 Demo Track)
38. **Liangming Pan**, Xiaobao Wu, Xinyuan Lu, Anh Tuan Luu, William Yang Wang, Min-Yen Kan, Preslav Nakov. [Fact-Checking Complex Claims with Program-Guided Reasoning](#). Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL 2023)
39. Xuan Long Do, Bowei Zou, Shafiq Joty, Tran Tai, **Liangming Pan**, Nancy Chen, Ai Ti Aw. [Modeling What-to-ask and How-to-ask for Answer-unaware Conversational Question Generation](#). Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL 2023)
40. **Liangming Pan**, Wenhui Chen, Min-Yen Kan, William Yang. [Attacking Open-domain Question Answering by Injecting Misinformation](#). Proceedings of the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 13th International Joint Conference on Natural Language Processing (AACL-IJCNLP 2023) (Area Chair Award in Question Answering Track)
41. **Liangming Pan***, Yunxiang Zhang*, Min-Yen Kan. [Investigating Zero- and Few-shot Generalization in Fact Verification](#). Proceedings of the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 13th International Joint Conference on Natural Language Processing (AACL-IJCNLP 2023) (*equal contribution)
42. Yan Meng*, **Liangming Pan***, Yixin Cao, Min-Yen Kan. [FOLLOWUPOG: Towards Information-Seeking Follow-up Question Generation](#). Proceedings of the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 13th International Joint Conference on Natural Language Processing (AACL-IJCNLP 2023) (*equal contribution)
43. Shizhe Diao, Sedrick Scott Keh, **Liangming Pan**, Zhiliang Tian, Yan Song, Tong Zhang. [Hashtag-Guided Low-Resource Tweet Classification](#). Proceedings of the ACM Web Conference (WWW 2023)
44. Xiaobao Wu, Xinshuai Dong, Thong Nguyen, Chaoqun Liu, **Liangming Pan**, Anh Tuan Luu. [InfoCTM: A Mutual Information Maximization Perspective of Cross-lingual Topic Modeling](#). Proceedings of the 37th AAAI Conference on Artificial Intelligence (AAAI 2023)
45. Alon Albalak, **Liangming Pan**, Colin Raffel, and William Yang Wang. [Efficient Online](#)

[Data Mixing For Language Model Pre-Training](#). In *NeurIPS Workshop on Robustness of Few-shot and Zero-shot Learning in Foundation Models (R0-FoMo@NeurIPS, 2023)* (Spotlight Paper)

2022

46. Huanli Gong, **Liangming Pan***, Hengchang Hu. [KHANO: A Dataset for Generating Deep Questions in Education](#). Proceedings of the 29th International Conference on Computational Linguistics (COLING 2022) (*: corresponding author)

47. Xuan Long Do, Bowei Zou, **Liangming Pan**, Nancy F. Chen, Shafiq Joty, Ai Ti Aw. [CoHS-CQG: Context and History Selection for Conversational Question Generation](#). Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (COLING 2022)

48. Jianlong Wu, **Liangming Pan**, Jingjing Chen, Yu-Gang Jiang. [Ingredient-enriched Recipe Generation from Cooking Videos](#). Proceedings of the 2022 International Conference on Multimedia Retrieval (ICMR 2022)

49. Shulin Cao, Jiaxin Shi, **Liangming Pan**, Lunyiu Nie, Yutong Xiang, Lei Hou, Juanzi Li, Hanwang Zhang, Bin He. [KQA Pro: A Dataset with Explicit Compositional Programs for Complex Question Answering over Knowledge Base](#). Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022)

50. Yunxiang Zhang, **Liangming Pan**, Samson Tan, Min-Yen Kan. [Interpreting the Robustness of Neural NLP Models to Textual Perturbations](#). Findings of the 60th Annual Meeting of the Association for Computational Linguistics (Findings of ACL 2022)

51. Bowei Zou, Pengfei Li, **Liangming Pan**, Ai Ti Aw. [Automatic True/False Question Generation for Educational Purpose](#). Proceedings of the 17th Workshop on Innovative Use of NLP for Building Educational Applications (BEA@NAACL 2022)

52. Hengchang Hu, **Liangming Pan**, Yiding Ran, Min-Yen Kan. [Modeling and Leveraging Prerequisite Context in Recommendation](#). Proceedings of the Workshop on Context-Aware Recommender Systems at the 17th ACM Conference on Recommender Systems (CARS@RecSys 2022)

2021

53. **Liangming Pan**, Wenhui Chen, Wenhan Xiong, Min-Yen Kan, William Yang Wang. [Zero-shot Fact Verification by Claim Generation](#). Proceedings of the Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021)

54. **Liangming Pan**, Wenhui Chen, Wenhan Xiong, Min-Yen Kan, William Yang Wang. [Unsupervised Multi-hop Question Answering by Question Generation](#). Proceedings of the 2021 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2021)

2020

55. **Liangming Pan**, Yuxi Xie, Yansong Feng, Min-Yen Kan, Tat-Seng Chua. [Semantic Graphs for Deep Question Generation](#). Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)
56. **Liangming Pan**, Jingjing Chen, Shaoteng Liu, Chong-Wah Ngo, Min-Yen Kan, Tat-Seng Chua. [A Hybrid Approach for Detecting Prerequisite Relations in Multi-modal Food Recipes](#). *IEEE Transactions on Multimedia*. 2020 Dec 9.
57. Yuxi Xie, **Liangming Pan***, Dongzhe Wang, Min-Yen Kan, Yansong Feng. [Exploring Question-Specific Rewards for Generating Deep Questions](#). Proceedings of the 28th International Conference on Computational Linguistics (COLING 2020) (*: corresponding author)
58. **Liangming Pan**, Jingjing Chen, Jianlong Wu, Shaoteng Liu, Chong-Wah Ngo, Min-Yen Kan, Yu-Gang Jiang, Tat-Seng Chua. [Multi-modal Cooking Workflow Construction for Food Recipes](#). Proceedings of the 28th ACM International Conference on Multimedia (ACM MM 2020)
59. Zhiyuan Liu, Yixin Cao, **Liangming Pan**, Juanzi Li, Tat-Seng Chua. [Exploring and Evaluating Attributes, Values, and Structures for Entity Alignment](#). Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP 2020)
60. Yixin Cao, Ruihao Shui, **Liangming Pan**, Min-Yen Kan, Zhiyuan Liu, Tat-Seng Chua. [Expertise Style Transfer: A New Task Towards Better Communication between Experts and Laymen](#). Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)
61. Shaoteng Liu, Jingjing Chen, **Liangming Pan**, Chong-Wah Ngo, Tat-Seng Chua, Yugang Jiang. [Hyperbolic Visual Embedding Learning for Zero-Shot Recognition](#). Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2020)
62. Jingjing Chen, **Liangming Pan**, ZhipengWei, Xiang Wang, Chong-Wah Ngo, Tat-Seng Chua. [Zero-shot Ingredient Recognition by Multi-Relational Graph Convolutional Network](#). Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI 2020)

2019 and before

63. Yahui An, **Liangming Pan**, Min-Yen Kan, Qiang Dong, Yan Fu. [Resource Mention Extraction for MOOC Discussion Forums](#). *IEEE Access* 7 (2019): 87887-87900.
64. Jifan Yu, **Liangming Pan**, Juanzi Li, and Xiaoping Du. [Predicting Concept-based Research Trends with Rhetorical Framing](#). Proceedings of the 3th China Conference on Knowledge Graph and Semantic Computing (CCKS 2018)
65. **Liangming Pan**, Chengjiang Li, Juanzi Li, and Jie Tang. [Prerequisite Relation Learning for Concepts in MOOCs](#). In Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (ACL 2017)
66. **Liangming Pan**, Xiaochen Wang, Chengjiang Li, Juanzi Li, and Jie Tang. [Course Concept](#)

[Extraction in MOOCs via Embedding-Based Graph Propagation](#). In Proceedings of the 8th International Joint Conference on Natural Language Processing (IJCNLP 2017)

67. **Liangming Pan**, Zhigang Wang, Juanzi Li, and Jie Tang. [Domain Specific Cross-lingual Knowledge Linking based on Similarity Flooding](#). In Proceedings of the 9th International Conference on Knowledge Science, Engineering and Management (KSEM 2016)

68. Zhigang Wang, **Liangming Pan**, Juanzi Li, Shuangjie Li, Mingyang Li, and Jie Tang. [Boosting to Build a Large-scale Cross-lingual Ontology](#). In Proceedings of the 1th China Conference on Knowledge Graph and Semantic Computing (CCKS 2016)

69. Yan Zhang, Hailong Jin, **Liangming Pan**, and Juanzi Li. [RiMOM results for OAEI 2016](#). In Proceedings of the 11th International Workshop on Ontology Matching (OM@ISWC 2016)

70. Weiwei Wang, Zhigang Wang, **Liangming Pan**, Yang Liu, and Jiangtao Zhang. Research on the Construction of Bilingual Movie Knowledge Graph. Journal of Acta Scientiarum Naturalium Universitatis Pekinensis 2016 (paper in Chinese)

PROFESSIONAL SERVICES

Conference Program Committee Member / Reviewer

Student Volunteer Chair, ACL 2024

Area Chair, NAACL 2025, ACL 2025, NeurIPS 2025

Area Chair, ACL 2024, EMNLP 2024, COLING 2025

Area Chair, Question Answering, ACL 2023

Session Chair, Dialog Systems, ACL 2023

Senior PC member, IJCAI 2021

PC member of EMNLP 2020-2024

PC member of ACL 2020-2024

PC member of NAACL 2021-2024

PC member of AAAI 2022-2024

Reviewer of ACL Rolling Review (ARR)

Journal Reviewer

Transactions of the Association for Computational Linguistics (TACL)

IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP)

Other Activities

Organizer of the [WING NUS Natural Language Processing \(NLP\) Seminar 2021](#)

Session Chair, [The 2022 Singapore Symposium on Natural Language Processing \(SSNLP\)](#)