Manling Li

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Educatio	ons	
-	Illinois at Urbana-Champaign nputer Science. Advisor: Prof. Heng Ji	08/2019 - Present
	plytechnic Institute nputer Science. Advisor: Prof. Heng Ji	08/2018 - 08/2019
	computing Technology, Chinese Academy of Sciences outer Science and Technology. Advisor: Prof. Yuanzhuo Wang	08/2015 - 06/2018
B.E. in Comp	Science and Technology Beijing buter Science (Internet of Things) mation Management and Information Systems (minor)	08/2011 - 06/2015
Experier	ıce	
IBM Thomas J. Watson Research Center, Yorktown Heights, NY, USA Mentor: Tengfei Ma, Mo Yu		07/2020 - 09/2020
Research	ា Interest	
Natural Lang	uage Processing, with special focus on Multimedia Knowledge Extraction, Inference, an	nd Generation
Publicat	ions	
Preprint	Future is not One-dimensional: Complex Event Schema Induction via Graph Modeling. Manling Li, Sha Li, Zhenhailong Wang, Lifu Huang, Kyunghyun Cho, Heng Ji and Jiawei Han. arXiv:2104.06344	
NAACL'21	COVID-19 Literature Knowledge Graph Construction and Drug Repurposing Report Generation. Qingyun Wang, Manling Li, Xuan Wang, Nikolaus Parulian, Guangxing Han, Jiawei Ma, Jingxuan Tu, Ying Lin, etc Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics (Demonstrations)	
NAACL'21	RESIN: A Dockerized Schema-Guided Cross-document Cross-lingual Cross-media Information Extraction and Event Tracking System. Haoyang Wen, Ying Lin, Tuan M. Lai, Xiaoman Pan, Sha Li, Xudong Lin, Ben Zhou, Manling Li, Haoyu Wang, Hongming Zhang, Xiaodong Yu, Alexander Dong, Zhenhailong Wang, Yi R. Fung, Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics (Demonstrations)	
NAACL'21	GENE: Global Event Network Embedding . Qi Zeng, Manling Li, Tuan Lai, Heng Ji, Mohit Bansal and Hanghang Tong. Proceedings of NAACL-HLT2021 Workshop on Graph-Based Natural Language Processing	
AAAI'21	<i>Event-centric Natural Language Understanding</i> . Muhao Chen, Hongming Zhang, Qiang Ning, Manling Li, Heng Ji and Dan Roth. Proc. The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI2021) Tutorial.	
EMNLP'20	Connecting the Dots: Event Graph Schema Induction with Path Language Modeling. Manling Li, Qi Zeng, Ying Lin, Kyunghyun Cho, Heng Ji, Jonathan May, Nathanael Chambers, Clare Voss. Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing.	
ACL'20	GAIA: A Fine-grained Multimedia Knowledge Extraction System. Manling Li*, Alireza Zareian*, Ying Lin, Xiaoman Pan, Spencer Whitehead, Brian Chen, Bo Wu, Heng Ji, Shih-Fu Chang, Clare R. Voss, Dan Napierski, Marjorie Freedman. Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics: System Demonstrations. pp. 77–86 (Best Demo Award at ACL2020)	
ACL'20	Cross-media Structured Common Space for Multimedia Event Extraction . Manling Li*, Alireza Zareian*, Qi Zeng, Spencer Whitehead, Di Lu, Heng Ji, Shih-Fu Chang. Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, pp.2557–2568	
TAC KBP'20	GAIA at SM-KBP 2020 - A Dockerized Multi-media Multi-lingual Knowledge Extraction, Clustering, Temporal Tracking and Hypothesis Generation System. Manling Li, Ying Lin, Tuan Manh Lai, Xiaoman Pan, Haoyang Wen, Sha Li, etc Text Analysis Conference Knowledge Base Population (TAC-KBP) Workshop 2020	

TAC KBP'20	UIUC TAC2020 RUFES System Description. Revanth Gangi Reddy, Manling Li, Haoyang Wen and Heng Ji. Text Analysis		
	Conference Knowledge Base Population (TAC-KBP) Workshop 2020		
ACL'19	Keep Meeting Summaries on Topic: Abstractive Multi-Modal Meeting Summarization. Manling Li, Lingyu Zhang, Heng		
	Ji, Rich Radke. Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, pp.2190–2196		
NAACL'19	Multilingual Entity, Relation, Event and Human Value Extraction. Manling Li, Ying Lin, Joe Hoover, Spencer		
	Whitehead, Clare R. Voss, Morteza Dehghani, Heng Ji. Proceedings of the 2019 Conference of the North American		
	Chapter of the Association for Computational Linguistics (Demonstrations), pp.110–115		
TAC KBP'19	GAIA at SM-KBP 2019 - A Multi-media Multi-lingual Fine-Grained Knowledge Extraction and Hypothesis Generation		
	System. Manling Li, Ying Lin, Ananya Subburathinam, Spencer Whitehead, Xiaoman Pan, Di Lu, Qingyun Wang, Tongtao		
	Zhang, Lifu Huang, Heng Ji, etc. Text Analysis Conference Knowledge Base Population (TAC-KBP) Workshop 2019		
TAC KBP'19	A Baseline Fine-Grained Entity Extraction System for TAC-KBP2019. Ying Lin, Xiaoman Pan, Manling Li, Heng Ji, etc.		
	Text Analysis Conference Knowledge Base Population (TAC-KBP) Workshop 2019		
ACM MMSys'19	The Unobtrusive Group Interaction (UGI) Corpus. Indrani Bhattacharya, Michael Foley, Ni, Tongtao Zhang, Christine		
	Ku, Cameron Mine, Manling Li, Heng Ji, etc. Proceedings of the 10th ACM Multimedia Systems Conference, pp.249-254		
TAC KBP'18	GAIA - A Multi-media Multi-lingual Knowledge Extraction and Hypothesis Generation System. Tongtao Zhang,		
	Ananya Subburathinam, Ge Shi, Lifu Huang, Di Lu, Xiaoman Pan, Manling Li, Boliang Zhang, Qingyun Wang, Spencer		
	Whitehead, Heng Ji, etc. Text Analysis Conference Knowledge Base Population (TAC-KBP) Workshop 2018		
WWW'18	Hierarchical Types Constrained Topic Entity Detection for Knowledge Base Question Answering. Yunqi Qiu,		
	Manling Li, Yuanzhuo Wang, Yantao Jia.Companion Proceedings of The Web Conference 2018, pp.35-36 (abstract)		
AAAI'18	Path-Based Attention Neural Model for Fine-Grained Entity Typing. Denghui Zhang, Manling Li, Pengshan Cai, Yantao		
	Jia, Yuanzhuo Wang. Proceedings of the 32nd AAAI Conference on Artificial Intelligence, pp.8179-8180 (abstract)		
IEEE Trans	Link Prediction in Knowledge Graphs: A Hierarchy-Constrained Approach. Manling Li, Yuanzhuo Wang, Denghui		
	Zhang, Yantao Jia, Xueqi Cheng. IEEE Transactions on Big Data, pp.1-14		
WI'17	Efficient Parallel Translating Embedding For Knowledge Graphs. Denghui Zhang, Manling Li, Yantao Jia, Yuanzhuo		
	Wang, Xueqi Cheng. Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence 2017, pp.460-468		
TAC KBP'16	OpenKN at TAC KBP 2016. Manling Li, Xinlei Chen, Yantao Jia, Yuanzhuo Wang, etc. TAC KBP Workshop 2016		
WWW'16	Hierarchy-Based Link Prediction in Knowledge Graphs. Manling Li, Yantao Jia, Yuanzhuo Wang, Jingyuan Li, Xueqi		
	Cheng. Proceedings of the 25th International Conference Companion on World Wide Web, pp.77-78 (abstract)		
AAAI'16	Predicting Links and Their Building Time: A Path-Based Method. Manling Li, Yantao Jia, Yuanzhuo Wang, Zeya Zhao,		
	Xueqi Cheng. Proceedings of the Thirtieth AAAI Conference on Artificial Intelligence, pp.4228-4229 (abstract)		
Patent	An Ontology Alignment Algorithm Based on Knowledge Graph Embedding. 1st student author. No. CN108694201A		
Patent	A Relation Inference System Based on Knowledge Graph Embedding. 1st student author. No. CN106909622A		
Patent	A Tag Inference System Based on Knowledge Graph Embedding. 2nd student author. No.CN107391577A		
Patent	A Fine-Grained Classification Method for Knowledge Base. 2nd student author. No. CN104615687B		
Patent	An Attribute Extraction Method for Web Pages. 2nd student author. No. CN104636466A		
Patent	Knoweldge Graph Compression. 1st author. No. P202007467US01		

Invited Talks _

Event-centric Natural Language Understanding, Tutorial at The 35th AAAI Conference on Artificial Intelligence (AAAI2021)

Event Understanding and Narration for Multimedia Data, Intel MDI Research Lab

Fine-Grained Knowledge Extraction System from Multimedia Data, ai.science

Event Extraction and Reasoning in Multimedia News Data, CSIT Summit

Honors _

Awards

• ACL2020 Best Demo Paper Award; Mavis Future Faculty Fellow; C.L. and Jane Liu Award

Academic and Scientific Competitions

- 1st prize in National Computer Game Tournament (Connect Six), 2nd Prize in National Computer Game Tournament (Nogo)
- 1st prize in National Software Innovation Competition, 3rd prize in National Information Security Competition
- 2nd prize in National Computer Design Competition, 2nd prize in Student Research Training Program of China