Manling Li

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Education	ns	
-	linois at Urbana-Champaign outer Science. Advisor: Prof. Heng Ji	08/2019 - Present
	ytechnic Institute outer Science. Advisor: Prof. Heng Ji	08/2018 - 08/2019
	mputing Technology, Chinese Academy of Sciences uter Science and Technology. Advisor: Prof. Yuanzhuo Wang	08/2015 - 06/2018
-	niversity of Science and Technology Beijing B.E. in Computer Science (Internet of Things), B.M. in Information Management and Information Systems (minor)	
Experience	ce	
Microsoft Research	arch, Cognitive Services Research group, Redmond, WA, USA	05/2021 - 08/2021
IBM Research, <i>Mentor: Tengfei I</i>	Foundations of AI Reasoning group, Yorktown Heights, NY, USA Ma, Mo Yu	06/2020 - 08/2020
Research	Interest	
Natural Langua	age Processing, with special focus on Multimedia Knowledge Extraction, Reasoning, and	Summarization
Publication	ons	
Preprint	Future is not One-dimensional: Complex Event Schema Induction via Graph Modeling. Manling Zhenhailong Wang, Lifu Huang, Kyunghyun Cho, Heng Ji and Jiawei Han. arXiv:2104.06344	Li,Sha Li,
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	
Best Demo Paper	Conference of the North American Chapter of the Association for Computational Linguistics (<i>Demo RESIN: A Dockerized Schema-Guided Cross-document Cross-lingual Cross-media Information E</i>	
NAACL'21	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	Event-centric Natural Language Understanding. Muhao Chen, Hongming Zhang, Qiang Ning, Ma Dan Roth. Proc. The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI2021) Tutorial.	inling Li, Heng Ji and
EMNLP'20	Connecting the Dots: Event Graph Schema Induction with Path Language Modeling. Manling Li Kyunghyun Cho, Heng Ji, Jonathan May, Nathanael Chambers, Clare Voss. Proceedings of the 202 Empirical Methods in Natural Language Processing.	O Conference on
ACL'20	GAIA: A Fine-grained Multimedia Knowledge Extraction System. Manling Li*, Alireza Zareian*, Yir Spencer Whitehead, Brian Chen, Bo Wu, Heng Ji, Shih-Fu Chang, Clare R. Voss, Dan Napierski, Marj	~
Best Demo Paper	Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics: System	
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 and Hypothesis Generation System. Manling Li, Ying Lin, Tuan Manh Lai, Xiaoman Pan, Haoyang Vanalysis 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		
		Multilingual Entity, Relation, Event and Human Value Extraction. Manling Li, Ying Lin, Joe Hoover, Spencer		
	NAACL'19	Whitehead, Clare R. Voss, Morteza Dehghani, Heng Ji. Proceedings of the 2019 Conference of the North American		
	TAC KBP'19	Chapter of the Association for Computational Linguistics (Demonstrations), pp.110–115		
		GAIA at SM-KBP 2019 - A Multi-media Multi-lingual Fine-Grained Knowledge Extraction and Hypothesis Generation		
		<i>System</i> . Manling Li, Ying Lin, Ananya Subburathinam, Spencer Whitehead, Xiaoman Pan, Di Lu, Qingyun Wang, Tongtao		
	TAC KBP'19	Zhang, Lifu Huang, Heng Ji, etc. Text Analysis Conference Knowledge Base Population (TAC-KBP) Workshop 2019		
		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		
		The Unobtrusive Group Interaction (UGI) Corpus. Indrani Bhattacharya, Michael Foley, Ni, Tongtao Zhang, Christine		
	ACM MMSys'19	Ku, Cameron Mine, Manling Li, Heng Ji, etc. Proceedings of the 10th ACM Multimedia Systems Conference, pp.249-254		
		GAIA - A Multi-media Multi-lingual Knowledge Extraction and Hypothesis Generation System. Tongtao Zhang,		
	TAC KBP'18	Ananya Subburathinam, Ge Shi, Lifu Huang, Di Lu, Xiaoman Pan, Manling Li, Boliang Zhang, Qingyun Wang, Spencer		
	WWW'18	Whitehead, Heng Ji, etc. Text Analysis Conference Knowledge Base Population (TAC-KBP) Workshop 2018		
		Hierarchical Types Constrained Topic Entity Detection for Knowledge Base Question Answering. Yunqi Qiu,		
	AAAAAA TO	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 Tue	Link Prediction in Knowledge Graphs: A Hierarchy-Constrained Approach. Manling Li, Yuanzhuo Wang, Denghui		
	IEEE Trans	Zhang, Yantao Jia, Xueqi Cheng. IEEE Transactions on Big Data, pp.1-14		
		Efficient Parallel Translating Embedding For Knowledge Graphs. Denghui Zhang, Manling Li, Yantao Jia, Yuanzhuo		
	WI'17	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		
١		Hierarchy-Based Link Prediction in Knowledge Graphs. Manling Li, Yantao Jia, Yuanzhuo Wang, Jingyuan Li, Xueqi		
	WWW'16	Cheng. Proceedings of the 25th International Conference Companion on World Wide Web, pp.77-78 (abstract)		
	A A A 114 C	Predicting Links and Their Building Time: A Path-Based Method. Manling Li, Yantao Jia, Yuanzhuo Wang, Zeya Zhao,		
	AAAI'16	Xueqi Cheng. Proceedings of the Thirtieth AAAI Conference on Artificial Intelligence, pp.4228-4229 (abstract)		
	Datant	An Outstan Alicense at Alexatters Board on Knowledge County Freeholding 1st students with an New CN100C04201A		
	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 A Tag Inference System Based on Knowledge Graph Embedding. 2nd student author. No.CN107391577A		
	Patent			
	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 _____

 $\textbf{Event-centric Natural Language Understanding}\ , \ \mathsf{Tutorial}\ \mathsf{at}\ \mathsf{the}\ \mathsf{59th}\ \mathsf{Annual}\ \mathsf{Meeting}\ \mathsf{of}\ \mathsf{the}\ \mathsf{Association}\ \mathsf{for}\ \mathsf{Computational}\ \mathsf{Linguistics}\ (\mathsf{ACL2021})$

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

Honors ___

Selected Awards

- ACL 2020 Best Demo Paper Award
- NAACL 2021 Best Demo Paper Award
- Mavis Future Faculty Fellow
- C.L. and Jane Liu Award

Selected Scholarships

• National Scholarship

Selected Academic Competitions and Evaluations

- Ranked 1st in TAC Streaming Multimedia Knowledge Base Population (SM-KBP) 2019, with more than 10% absolute gains compared the second ranked team
- Ranked 1st in TAC Streaming Multimedia Knowledge Base Population (SM-KBP) 2020
- 1st prize in National Computer Game Tournament (Connect Six)
- 1st prize in National Software Innovation Competition
- 2nd prize in National Computer Design Competition
- 2nd Prize in National Computer Game Tournament (Nogo)
- 2nd prize in Student Research Training Program of China

Services

Journal Reviewer

• IEEE MultiMedia; Neurocomputing; Journal of Artificial Intelligence Research

Senior PC Member

• IJCAI'21

PC Member

• EMNLP'21; ACL'21; AAAI'21; WWW'21; EACL'21; KDD'21 DI Workshop; NLPCC 2021; COLING'20; AACL'20; CCL'20