JIACHENG LI

8681 Via Mallorca #37, La Jolla, CA, 92037 (858)-346-3311 ◊ J9LI@ENG.UCSD.EDU

EDUCATION

 University of California, San Diego Doctor of Philosophy. Advisors: Julian McAuley and Jingbo Shang. Department of Computer Science and Engineering. University of California, San Diego Master of Science. Department of Computer Science and Engineering. Nanjing University of Posts and Telecommunications Bachelor of Engineering. College of Computer Science. 	Sep 2020 - Present Sep 2018 - June 2020 Sep 2014 - June 2018		
		Natural language processing, Recommender systems	
		WORK EXPERIENCE	
		Applied Scientist InternAmazonProduct graph team. Project: Neural-symbolic reasoning on product knowledge graph.	Sep 2022 - Dec 2022
Applied Scientist Intern Amazon Product semantics team. Project: Attribute-enhanced personalized product highlights gene	June 2022 - Sep 2022 eration.		
Graduate Student Researcher-Machine Learning, NLP <i>IBM Research, UC San Diego</i> Project: Information Extraction for Microbiome Knowledge Base Construction.	Sep 2019 - Jun 2022		
Applied Scientist Intern Amazon Personalization team. Supervisor: Tong Zhao	June 2021 - Sep 2021		
Machine Learning for Natural Language Processing Intern Bosch USA. Project: Weakly Supervised Named Entity Recognition by Rules.	June 2020 - Sep 2020		

PUBLICATIONS

Jiacheng Li, Ming Wang, Jin Li, Jinmiao Fu, Xin Shen, Jingbo Shang, Julian McAuley. Text Is All You Need: Learning Language Representations for Sequential Recommendation. *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2023*.

Jiacheng Li, Zhankui He, Jingbo Shang, Julian McAuley. UCEpic: Unifying Aspect Planning and Lexical Constraints for Generating Explanations in Recommendation. ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2023.

An Yan, Zhankui He, **Jiacheng Li** and Julian McAuley. Personalized Showcases: Generating Multi-Modal Explanations for Recommendations. International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR) 2023. Ranak Roy Chowdhury, **Jiacheng Li**, Xiyuan Zhang, Dezhi Hong, Rajesh Gupta, Jingbo Shang. PrimeNet: Pretraining for Irregular Multivariate Time Series. AAAI Conference on Artificial Intelligence (AAAI) 2023.

William Hogan, **Jiacheng Li**, Jingbo Shang. Fine-grained Contrastive Learning for Relation Extraction. The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP) 2022.

Jiacheng Li, Yannis Katsis, Tyler Baldwin, Ho-Cheol Kim, Yoshiki Vazquezbaeza, Andrew Bartko, Julian McAuley and Chun-Nan Hsu. SPOT: Knowledge-Enhanced Language Representations for Information Extraction. 31st ACM International Conference on Information and Knowledge Management (CIKM) 2022.

Jiacheng Li, Tong Zhao, Jin Li, Jim Chan, Christos Faloutsos, George Karypis, Soo-Min Pantel and Julian McAuley. Coarse-to-Fine Sparse Sequential Recommendation. *SIGIR 2022*.

Jiacheng Li, Jingbo Shang and Julian McAuley. UCTopic: Unsupervised Contrastive Learning for Phrase Representations and Topic Mining. Annual Meeting of the Association for Computational Linguistics (ACL) 2022.

Jiacheng Li, Haibo Ding, Jingbo Shang, Julian McAuley and Zhe Feng. Weakly Supervised Named Entity Tagging with Learnable Logical Rules. *Annual Meeting of the Association for Computational Linguistics (ACL) 2021*.

Yang Jiao*, **Jiacheng Li***, Jiaman Wu, Dezhi Hong, Rajesh Gupta and Jingbo Shang. SeNsER: Learning Cross-Building Sensor Metadata Tagger. (*Findings of EMNLP*) 2020.

Jiacheng Li, Yujie Wang, Julian McAuley. Time Interval Aware Self-Attention for Sequential Recommendation. International Conference on Web Search and Data Mining (WSDM) 2020.

Jianmo Ni, **Jiacheng Li**, Julian McAuley. Justifying Recommendations using Distantly-Labeled Reviews and Finegrained Aspect. *Empirical Methods in Natural Language Processing (EMNLP) 2019*.

An Yan, **Jiacheng Li**, Wanrong Zhu, Yujie Lu, William Yang Wang, Julian McAuley. CLIP also Understands Text: Prompting CLIP for Phrase Understanding. *Under Review*.

PROJECTS

Weakly Supervised Named Entity Recognition with both Symbolic and Neural Representations Research Project. Pytorch. Snorkel

- An iterative framework to recognize entities starting from a few seeding entities.
- Generate and select rules from raw text and predicted entities automatically. Apply rules on raw text to expand more entities.
- An independent entity instances selector to reduce the noises in the expanded entities.
- Span-based named entity recognition.

Time Interval Aware Self-Attention for Sequential Recommendation *Research Project.* **Tensorflow**.

- Designed a novel time interval aware self-attention (TiSA) mechanism to learn the weight of different items, absolute position and time intervals to predict the following items.
- We proposed to view users interactions history as a sequence with different time intervals, and model different time intervals as relations between any two interactions.