

CURRICULUM VITAE – LIDONG BING

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WORK EXPERIENCE

DAMO Academy, Alibaba Group 2018 - present
R&D Director, Head of Multilingual Team
AI Lab, Tencent 2016 - 2018
Senior Researcher

EDUCATION

Postdoctoral Fellow 2016
Machine Learning Dept, Carnegie Mellon University.
Ph.D. 2013
Faculty of Engineering, The Chinese University of Hong Kong.
M.Sc. 2009
School of EECS, Peking University.
B.Sc. 2006
School of Computer Science, Northeast Normal University.

R&D SCOPE

General areas: Natural Language Processing, Machine Learning, Artificial Intelligence

Specific areas: Low-resource and multilingual NLP problems, large language models and their applications

PUBLICATIONS

[2023]

LLM-Adapters: An Adapter Family for Parameter-Efficient Fine-Tuning of Large Language Models. (Zhiqiang Hu, Yihuai Lan, Lei Wang, Wanyu Xu, Ee-Peng Lim, Roy Ka-Wei Lee, Lidong Bing, Soujanya Poria), *preprint arXiv:2304.01933*, 2023.

Can ChatGPT-like Generative Models Guarantee Factual Accuracy? On the Mistakes of Microsoft's New Bing. (Yew Ken Chia, Ruochen Zhao, Xingxuan Li, Bosheng Ding, Lidong Bing), *Follow-up reports by CNN, CNBC, FORTUNE, etc.*, 2023.

On the Effectiveness of Parameter-Efficient Fine-Tuning. (Zihao Fu, Haoran Yang, Anthony Man-Cho So, Wai Lam, Lidong Bing, Nigel Collier), *The AAAI Conference on Artificial Intelligence (AAAI'23)*, 2023.

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Is GPT-3 a Psychopath? Evaluating Large Language Models from a Psychological Perspective. (Xingxuan Li, Yutong Li, Linlin Liu, Shafiq Joty, Lidong Bing), *preprint arXiv:2212.10529*, 2022.

Is GPT-3 a Good Data Annotator? (Bosheng Ding, Chengwei Qin, Linlin Liu, Yew Ken Chia, Boyang Li and Shafiq Joty, Lidong Bing), *preprint arXiv:2212.10450*, 2022.

- A Survey on Aspect-Based Sentiment Analysis: Tasks, Methods, and Challenges.** (Wenxuan Zhang, Xin Li, Yang Deng, Lidong Bing, Wai Lam), *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, Dec 2022.
- IAM: A Comprehensive and Large-Scale Dataset for Integrated Argument Mining Tasks.** (Liyang Cheng, Lidong Bing, Ruidan He, Qian Yu, Yan Zhang, Luo Si), *The 60th Annual Meeting of the Association for Computational Linguistics Linguistics (ACL'22)*, 2022.
- GlobalWoZ: Globalizing MultiWoZ to Develop Multilingual Task-Oriented Dialogue Systems.** (Bosheng Ding, Junjie Hu, Lidong Bing, Sharifah Mahani Aljunied, Shafiq Joty, Luo Si, Chunyan Miao), *The 60th Annual Meeting of the Association for Computational Linguistics Linguistics (ACL'22)*, 2022.
- MELM: Data Augmentation with Masked Entity Language Modeling for Low-Resource NER.** (Ran Zhou, Xin Li, Ruidan He, Lidong Bing, Erik Cambria, Luo Si, Chunyan Miao), *The 60th Annual Meeting of the Association for Computational Linguistics Linguistics (ACL'22)*, 2022.
- RelationPrompt: Leveraging Prompts to Generate Synthetic Data for Zero-Shot Relation Triplet Extraction.** (Yew Ken Chia, Lidong Bing, Soujanya Poria, Luo Si), *Findings of The 60th Annual Meeting of the Association for Computational Linguistics Linguistics (ACL'22)*, 2022.
- MReD: A Meta-Review Dataset for Structure-Controllable Text Generation.** (Chenhui Shen, Liyang Cheng, Ran Zhou, Lidong Bing, Yang You, Luo Si), *Findings of The 60th Annual Meeting of the Association for Computational Linguistics Linguistics (ACL'22)*, 2022.
- Document-Level Relation Extraction with Adaptive Focal Loss and Knowledge Distillation.** (Qingyu Tan, Ruidan He, Lidong Bing, Hwee Tou Ng), *Findings of The 60th Annual Meeting of the Association for Computational Linguistics Linguistics (ACL'22)*, 2022.
- Enhancing Multilingual Language Model with Massive Multilingual Knowledge Triples.** (Linlin Liu, Xin Li, Ruidan He, Lidong Bing, Shafiq Joty, Luo Si), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'22)*, 2022.
- Retrofitting Multilingual Sentence Embeddings with Abstract Meaning Representation.** (Deng Cai, Xin Li, Jackie Chun-Sing Ho, Lidong Bing, Wai Lam), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'22)*, 2022.
- A Dataset for Hyper-Relational Extraction and a Cube-Filling Approach.** (Yew Ken Chia, Lidong Bing, Sharifah Mahani Aljunied, Luo Si, Soujanya Poria), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'22)*, 2022.
- Adaptive Contrastive Learning on Multimodal Transformer for Review Helpfulness Predictions.** (Thong Nguyen, Xiaobao Wu, Anh Tuan Luu, Cong-Duy Nguyen, Zhen Hai, Lidong Bing), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'22)*, 2022.
- SentBS: Sentence-level Beam Search for Controllable Summarization.** (Chenhui Shen, Liyang Cheng, Lidong Bing, Yang You, Luo Si), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'22)*, 2022.
- Revisiting DocRED â Addressing the False Negative Problem in Relation Extraction.** (Qingyu Tan, Lu Xu, Lidong Bing, Hwee Tou Ng, Sharifah Mahani Aljunied), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'22)*, 2022.

- Interventional Training for Out-Of-Distribution Natural Language Understanding.** (Sicheng Yu, Jing Jiang, Hao Zhang, Yulei Niu, Qianru Sun, Lidong Bing), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'22)*, 2022.
- ConNER: Consistency Training for Cross-lingual Named Entity Recognition.** (Ran Zhou, Xin Li, Lidong Bing, Erik Cambria, Luo Si, Chunyan Miao), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'22)*, 2022.
- SANCL: Multimodal Review Helpfulness Prediction with Selective Attention and Natural Contrastive Learning.** (Wei Han, Hui Chen, Zhen Hai, Soujanya Poria, Lidong Bing), *The 29th International Conference on Computational Linguistics (COLING'22)*, 2022.
- Towards Multi-Sense Cross-Lingual Alignment of Contextual Embeddings.** (Linlin Liu, Thien Hai Nguyen, Shafiq Joty, Lidong Bing, Luo Si), *The 29th International Conference on Computational Linguistics (COLING'22)*, 2022.
- Domain Generalization for Text Classification with Memory-Based Supervised Contrastive Learning.** (Qingyu Tan, Ruidan He, Hwee Tou Ng, Lidong Bing), *The 29th International Conference on Computational Linguistics (COLING'22)*, 2022.
- Enhancing Cross-lingual Prompting with Mask Token Augmentation** (Meng Zhou, Xin Li, Yue Jiang, Lidong Bing), *preprint arXiv:2202.07255*, 2022.
- Informative Text Generation from Knowledge Triples** (Zihao Fu, Yijiang River Dong, Lidong Bing, Wai Lam), *preprint arXiv:2209.12733*, 2022.
- PeerDA: Data Augmentation via Modeling Peer Relation for Span Identification Tasks** (Weiwen Xu, Xin Li, Yang Deng, Lidong Bing, Wai Lam), *preprint arXiv:2210.08855*, 2022.
- From Clozing to Comprehending: Retrofitting Pre-trained Language Model to Pre-trained Machine Reader** (Weiwen Xu, Xin Li, Wenxuan Zhang, Meng Zhou, Wai Lam, Luo Si, Lidong Bing), *preprint arXiv:2212.04755*, 2022.
- Towards Robust Low-Resource Fine-Tuning with Multi-View Compressed Representations** (Linlin Liu, Xingxuan Li, Megh Thakkar, Xin Li, Shafiq Joty, Luo Si and Lidong Bing), *preprint arXiv:2211.08794*, 2022.
- [2021]**
- Cross-lingual Aspect-based Sentiment Analysis with Aspect Term Code-Switching.** (Wenxuan Zhang, Ruidan He, Haiyun Peng, Lidong Bing, Wai Lam), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'21)*, 2021.
- Aspect Sentiment Quad Prediction as Paraphrase Generation.** (Wenxuan Zhang, Yang Deng, Xin Li, Yifei Yuan, Lidong Bing, Wai Lam), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'21)*, 2021.
- Multilingual AMR Parsing with Noisy Knowledge Distillation.** (Deng Cai, Xin Li, Jackie Chun-Sing Ho, Lidong Bing, Wai Lam), *Findings of The Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP'21)*, 2021.
- Aspect-based Sentiment Analysis in Question Answering Forums.** (Wenxuan Zhang, Yang Deng, Xin Li, Lidong Bing, Wai Lam), *Findings of The Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP'21)*, 2021.

- Argument Pair Extraction via Attention-guided Multi-Layer Multi-Cross Encoding.** (Liyang Cheng, Tianyu Wu, Lidong Bing, Luo Si), *The 59th Annual Meeting of the Association for Computational Linguistics (ACL'21)*, 2021.
- On the Effectiveness of Adapter-based Tuning for Pretrained Language Model Adaptation.** (Ruidan He, Linlin Liu, Hai Ye, Qingyu Tan, Bosheng Ding, Liyang Cheng, Jiawei Low, Lidong Bing, Luo Si), *The 59th Annual Meeting of the Association for Computational Linguistics (ACL'21)*, 2021.
- MulDA: A Multilingual Data Augmentation Framework for Low-Resource Cross-Lingual NER.** (Linlin Liu, Bosheng Ding, Lidong Bing, Shafiq Joty, Luo Si, Chunyan Miao), *The 59th Annual Meeting of the Association for Computational Linguistics (ACL'21)*, 2021.
- Multi-perspective Coherent Reasoning for Helpfulness Prediction of Multimodal Reviews.** (Junhao Liu, Zhen Hai, Min Yang, Lidong Bing), *The 59th Annual Meeting of the Association for Computational Linguistics (ACL'21)*, 2021.
- Learning Span-Level Interactions for Aspect Sentiment Triplet Extraction.** (Lu Xu, Yew Ken Chia, Lidong Bing), *The 59th Annual Meeting of the Association for Computational Linguistics (ACL'21)*, 2021.
- Bootstrapped Unsupervised Sentence Representation Learning.** (Yan Zhang, Ruidan He, Zouzhu Liu, Lidong Bing, Haizhou Li), *The 59th Annual Meeting of the Association for Computational Linguistics (ACL'21)*, 2021.
- Towards Generative Aspect-Based Sentiment Analysis.** (Wenxuan Zhang, Xin Li, Yang Deng, Lidong Bing, Wai Lam), *The 59th Annual Meeting of the Association for Computational Linguistics (ACL'21)*, 2021.
- Better Feature Integration for Named Entity Recognition.** (Lu Xu, Zhanming Jie, Wei Lu, Lidong Bing), *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL'21)*, 2021.
- Exploring Auxiliary Reasoning Tasks for Task-oriented Dialog Systems with Meta Cooperative Learning.** (Bowen Qin, Min Yang, Lidong Bing, Qingshan Jiang, Chengming Li, Ruifeng Xu), *The AAAI Conference on Artificial Intelligence (AAAI'21)*, 2021.
- Harvest Shopping Advice: Neural Question Generation from Multiple Information Sources in E-commerce.** (Yongzhen Wang, Kaisong Song, Lidong Bing, and Xiaozhong Liu), *Neurocomputing*, 2021.
- Affect Recognition for Multimodal Natural Language Processing.** (Soujanya Poria, Ong Yew Soon, Bing Liu, Lidong Bing), *Cognitive Computation*, 2021.
- [2020]
- APE: Argument Pair Extraction from Peer Review and Rebuttal via Multi-task Learning.** (Liyang Cheng, Lidong Bing, Qian Yu, Wei Lu, Luo Si), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'20)*, 2020.
- ENT-DESC: Entity Description Generation by Exploring Knowledge Graph.** (Liyang Cheng, Dekun Wu, Lidong Bing, Yan Zhang, Zhanming Jie, Wei Lu, Luo Si), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'20)*, 2020.
- DAGA: Data Augmentation with a Generation Approach for Low-resource Tagging Tasks.** (Bosheng Ding, Linlin Liu, Lidong Bing, Canasai Kruengkrai, Thien Hai Nguyen, Shafiq Joty, Luo Si, Chunyan Miao), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'20)*, 2020.

- Partially-Aligned Data-to-Text Generation with Distant Supervision.** (Zihao Fu, Bei Shi, Wai Lam, Lidong Bing, Zhiyuan Liu), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'20)*, 2020.
- Aspect Sentiment Classification with Aspect-Specific Opinion Spans.** (Lu Xu, Lidong Bing, Wei Lu, Fei Huang), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'20)*, 2020.
- Position-Aware Tagging for Aspect Sentiment Triplet Extraction.** (Lu Xu, Hao Li, Wei Lu, Lidong Bing), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'20)*, 2020.
- Feature Adaptation of Pre-Trained Language Models across Languages and Domains with Robust Self-Training.** (Hai Ye, Qingyu Tan, Ruidan He, Juntao Li, Hwee Tou Ng, Lidong Bing), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'20)*, 2020.
- Lightweight, Dynamic Graph Convolutional Networks for AMR-to-Text Generation.** (Yan Zhang, Zhijiang Guo, Zhiyang Teng, Wei Lu, Shay B. Cohen, Zuozhu Liu, Lidong Bing), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'20)*, 2020.
- An Unsupervised Sentence Embedding Method by Mutual Information Maximization.** (Yan Zhang, Ruidan He, Zuozhu Liu, Kwan Hui Lim, Lidong Bing), *The Conference on Empirical Methods in Natural Language Processing (EMNLP'20)*, 2020.
- Dynamic Topic Tracker for KB-to-Text Generation.** (Zihao Fu, Lidong Bing, Wai Lam, Shoaib Jameel), *The 28th International Conference on Computational Linguistics (COLING)*, 2020.
- Unsupervised KB-to-Text Generation with Auxiliary Triple Extraction using Dual Learning.** (Zihao Fu, Bei Shi, Lidong Bing, Wai Lam), *The 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing (ACL-IJCNLP)*, 2020.
- Unsupervised Domain Adaptation of a Pretrained Cross-Lingual Language Model.** (Juntao Li, Ruidan He, Hai Ye, Hwee Tou Ng, Lidong Bing, Rui Yan), *The 29th International Joint Conference on Artificial Intelligence and the 17th Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI)*, 2020.
- Review-based Question Generation with Adaptive Instance Transfer and Augmentation.** (Qian Yu, Lidong Bing, Qiong Zhang, Wai Lam, Luo Si), *The 58th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2020.
- Improving Low-Resource Named Entity Recognition using Joint Sentence and Token Labeling.** (Canasai Kruengkrai, Thien Hai Nguyen, Sharifah Mahani Aljunied, Lidong Bing), *The 58th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2020.
- Knowing What, How and Why: A Near Complete Solution for Aspect-based Sentiment Analysis .** (Haiyun Peng, Lu Xu, Lidong Bing, Wei Lu, Fei Huang, Luo Si), *Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI)*, 2020.
- Open Domain Event Text Generation.** (Zihao Fu, Lidong Bing, Wai Lam), *Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI)*, 2020.
- Cross-Lingual Low-Resource Set-to-Description Retrieval for Global E-Commerce.** (Juntao Li, Chang Liu, Lidong Bing, Xiaozhong Liu, Hongsong Li, Jian Wang,

Dongyan Zhao, Rui Yan), *Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI)*, 2020.

CRET: Global Representation Enhanced Transformer. (Rongxiang Weng, Shujian Huang, Hao-Ran Wei, Heng Yu, Weihua Luo, Lidong Bing, Jiajun Chen), *Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI)*, 2020.

Unsupervised Cross-lingual Adaptation for Sequence Tagging and Beyond (Xin Li, Lidong Bing, Wenxuan Zhang, Zheng Li, and Wai Lam), *preprint arXiv:2010.12405*, 2020.

Salience Estimation with Multi-Attention Learning for Abstractive Text Summarization (Piji Li, Lidong Bing, Zhongyu Wei, and Wai Lam), *preprint arXiv:2004.03589*, 2020.

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Improving Question Generation With to the Point Context. (Jingjing Li, Yifan Gao, Lidong Bing, Irwin King, Michael R. Lyu), *The Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

Using Customer Service Dialogues for Satisfaction Analysis with Context-Assisted Multiple Instance Learning. (Kaisong Song, Lidong Bing, Wei Gao, Jun Lin, Lujun Zhao, Jiancheng Wang, Changlong Sun, Xiaozhong Liu, Qiong Zhang), *The Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

Hierarchical Pointer Net Parsing. (Linlin Liu, Xiang Lin, Shafiq Joty, Simeng Han, Lidong Bing), *The Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

Semi-supervised Text Style Transfer: Cross Projection in Latent Space. (Mingyue Shang, Piji Li, Zhenxin Fu, Lidong Bing, Dongyan Zhao, Shuming Shi, Rui Yan), *The Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

Tackling Long-Tailed Relations and Uncommon Entities in Knowledge Graph Completion. (Zihao Wang, Kwunping Lai, Piji Li, Lidong Bing, Wai Lam), *The Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

Transferable End-to-End Aspect-based Sentiment Analysis with Selective Adversarial Learning. (Zheng Li, Xin Li, Ying Wei, Lidong Bing, Yu Zhang, Qiang Yang), *The Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

A Knowledge Regularized Hierarchical Approach for Emotion Cause Analysis. (Chuang Fan, Hongyu Yan, Jiachen Du, Lin Gui, Lidong Bing, Min Yang, Ruifeng Xu, Ruibin Mao), *The Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

Who Is Speaking to Whom? Learning to Identify Utterance Addressee in Multi-Party Conversations. (Ran Le, Wenpeng Hu, Mingyue Shang, Zhenjun You, Lidong Bing, Dongyan Zhao, Rui Yan), *The Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

- Exploiting BERT for End-to-End Aspect-based Sentiment Analysis .** (Xin Li, Lidong Bing, Wenxuan Zhang, Wai Lam), *EMNLP Workshop W-NUT*, 2019.
- Difficulty Controllable Question Generation for Reading Comprehension.** (Yifan Gao, Lidong Bing, Wang Chen, Jianan Wang, Irwin King, Michael R. Lyu), *The 28th International Joint Conference on Artificial Intelligence (IJCAI)*, 2019.
- An Integrated Approach for Keyphrase Generation via Exploring the Power of Retrieval and Extraction.** (Wang Chen, Hou Pong Chan, Piji Li, Lidong Bing, Irwin King), *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, 2019.
- Persona-Aware Tips Generation.** (Piji Li, Zihao Wang, Lidong Bing, Wai Lam), *The Web Conference (WWW)*, 2019.
- Generating Distractors for Reading Comprehension Questions from Real Examinations.** (Yifan Gao, Lidong Bing, Piji Li, Irwin King, Michael R. Lyu), *Proceedings of the 33rd AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- A Unified Model for Opinion Target Extraction and Target Sentiment Prediction.** (Xin Li, Lidong Bing, Piji Li, Wai Lam), *Proceedings of the 33rd AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- Learning to Write Creative Stories with Thematic Consistency.** (Juntao Li, Lidong Bing, Lisong Qiu, Min Chen, Dongyan Zhao, Rui Yan), *Proceedings of the 33rd AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- Abstractive Text Summarization by Incorporating Reader Comments.** (Shen Gao, Xiuying Chen, Piji Li, Zhaochun Ren, Lidong Bing, Dongyan Zhao, Rui Yan), *Proceedings of the 33rd AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- [2018]
- Transformation Networks for Target-Oriented Sentiment Classification.** (Xin Li, Lidong Bing, Wai Lam, and Bei Shi.), *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2018.
- Learning Domain-Sensitive and Sentiment-Aware Word Embeddings.** (Bei Shi, Zihao Fu, Lidong Bing, and Wai Lam), *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2018.
- QuaSE: Sequence Editing (Accurate Text Style Transfer) under Quantifiable Guidance.** (Yi Liao, Lidong Bing, Piji Li, Shuming Shi, Wai Lam, and Tong Zhang), *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2018.
- Variational Autoregressive Decoder for Neural Response Generation.** (Jiacheng Du, Wenjie Li, Yulan He, Ruifeng Xu, Lidong Bing and Xuan Wang), *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2018.
- Hybrid Neural Attention for Agreement/Disagreement Inference in Online Debates.** (Di Chen, Jiachen Du, Lidong Bing and Ruifeng Xu), *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2018.
- Estimating Marginal Probabilities of n-grams for Recurrent Neural Language Models.** (Thanapon Noraset, Doug Downey and Lidong Bing), *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2018.
- Aspect Term Extraction with History Attention and Selective Transformation.** (Xin Li, Lidong Bing, Piji Li, Wai Lam, and Zhimou Yang), *The 27th International Joint Conference on Artificial Intelligence (IJCAI)*, 2018.

Semi-Supervised Learning with Declaratively Specified Entropy Constraints. (Haitian Sun, Lidong Bing, and William W. Cohen), *Conference on Neural Information Processing Systems (NeurIPS)*, 2018.

Joint Modeling of Participant Influence and Latent Topics for Recommendation in Event-based Social Networks. (Yi Liao, Wai Lam, Lidong Bing, Xin Shen), *ACM Trans. Inf. Syst. (TOIS)*, 2018.

Learning a Unified Embedding Space of Web Search from Large-scale Query Log. (Lidong Bing, Zheng-Yu Niu, Piji Li, Wai lam, Haifeng Wang), *Knowl.-Based Syst. (KBS)*, 2018.

Actor-Critic based Training Framework for Abstractive Summarization (Piji Li, Lidong Bing, and Wai Lam), *preprint arXiv:1803.11070*, 2018.

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Bootstrapping Distantly Supervised IE using Joint Learning and Small Well-structured Corpora. (Lidong Bing, Bhuwan Dhingra, Kathryn Mazaitis, Jong Hyuk Park, and William W. Cohen), *Proceedings of the 31st AAAI Conference on Artificial Intelligence (AAAI)*, 2017.

Saliency Estimation via Variational Auto-Encoders for Multi-Document Summarization. (Piji Li, Zihao Wang, Wai Lam, Zhaochun Ren, and Lidong Bing), *Proceedings of the 31st AAAI Conference on Artificial Intelligence (AAAI)*, 2017.

Towards a Language-independent Solution: Knowledge Base Completion by Searching the Web and Deriving Language Pattern. (Lidong Bing, Zhiming Zhang, Wai Lam, William W. Cohen), *Knowl.-Based Syst. (KBS)*, volume 115, 80-86, 2017.

Using Graphs of Classifiers to Impose Declarative Constraints on Semi-supervised Learning. (Lidong Bing, Bhuwan Dhingra, and William W. Cohen), *The 26th International Joint Conference on Artificial Intelligence (IJCAI)*, 2017.

Neural Rating Regression with Abstractive Tips Generation for Recommendation. (Piji Li, Zhaochun Ren, Lidong Bing, and Wai Lam), *The 40th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2017.

A Deep Recurrent Generative Decoder for Abstractive Text Summarization. (Piji Li, Lidong Bing, and Wai Lam), *Proceedings of Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2017.

Recurrent Attention Networks for Aspect Sentiment Analysis. (Peng Chen, Zhongqian Sun, Lidong Bing*, and Wei Yang), *Proceedings of Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2017. (*: corresponding author)

Abstractive Document Summarization via Hierarchical Memory Networks. (Piji Li, Wai Lam, Lidong Bing, and Zhengdong Lv), *Proceedings of Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2017.

Reader-Aware Multi-Document Summarization: An Enhanced Model and The First Dataset. (Piji Li, Lidong Bing, and Wai Lam), *Proceedings of the EMNLP 2017 Workshop on New Frontiers in Summarization (EMNLP-NewSum)*, 2017.

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Distant IE by Bootstrapping Using Lists and Document Structure (Lidong Bing, Mingyang Ling, Richard C. Wang, and William W. Cohen), *Proceedings of the 30th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 2899–2905, 2016.

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- Learning a Semantic Space of Web Search via Session Data** (Lidong Bing, Zheng-Yu Niu, Wai Lam, and Haifeng Wang), *Proceedings of the 20th Asia Information Retrieval Societies Conference (AIRS)*, pp. 83–97, 2016.
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- A Unified Posterior Regularized Topic Model with Maximum Margin for Learning-to-Rank** (Shoaib Jameel, Wai Lam, Steven Schockaert, and Lidong Bing), *Proceedings of the 24th ACM International Conference on Information and Knowledge Management (CIKM)*, pp. 103–112, 2015.
- Abstractive Multi-Document Summarization via Phrase Selection and Merging** (Lidong Bing, Piji Li, Yi Liao, Wai Lam, Weiwei Guo, Rebecca Passonneau), *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL)*, pp. 1587–1597, 2015.
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Website Community Mining from Query Logs with Two-Phase Clustering (Lidong Bing, Wai Lam, Shoaib Jameel, Chunliang Lu), *Proceedings of the 15th International Conference on Computational Linguistics and Intelligent Text Processing (CICLing)*, pp. 201-212, 2014.

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Web Entity Detection for Semi-structured Text Data Records with Unlabeled Data (Chunliang Lu, Lidong Bing, Wai Lam, Ki Chan, Yuan Gu), *International Journal of Computational Linguistics and Applications*, volume 4, pp. 135-150, 2013.

Wikipedia entity expansion and attribute extraction from the web using semi-supervised learning (Lidong Bing, Wai Lam, Tak-Lam Wong), *Proceedings of the sixth ACM International Conference on Web Search and Data Mining (WSDM)*, pp. 567-576, 2013.

Structured positional entity language model for enterprise entity retrieval (Chunliang Lu, Lidong Bing, Wai Lam), *Proceedings of the 22nd ACM International Conference on Information and Knowledge Management (CIKM)*, pp. 129-138, 2013.

Towards an enhanced and adaptable ontology by distilling and assembling online encyclopedias (Shan Jiang, Lidong Bing, Yan Zhang), *Proceedings of the 22nd ACM International Conference on Information and Knowledge Management (CIKM)*, pp. 1703-1708, 2013.

[PhD study]

Unsupervised Extraction of Popular Product Attributes from Web Sites (Lidong Bing, Tak-Lam Wong, Wai Lam), *Proceedings of the 8th Asia Information Retrieval Societies Conference on Information Retrieval Technology (AIRS)*, pp. 437-446, 2012.

Normalizing web product attributes and discovering domain ontology with minimal effort (Tak-Lam Wong, Lidong Bing, Wai Lam), *Proceedings of the Forth International Conference on Web Search and Web Data Mining (WSDM)*, pp. 805-814, 2011.

Ontology enhancement and concept granularity learning: keeping yourself current and adaptive (Shan Jiang, Lidong Bing, Bai Sun, Yan Zhang, Wai Lam), *Proceedings of the 17th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, pp. 1244-1252, 2011.

Using query log and social tagging to refine queries based on latent topics (Lidong Bing, Wai Lam, Tak-Lam Wong), *Proceedings of the 20th ACM Conference on Information and Knowledge Management (CIKM)*, pp. 583-592, 2011.

Towards a unified solution: data record region detection and segmentation (Lidong Bing, Wai Lam, Yuan Gu), *Proceedings of the 20th ACM Conference on Information and Knowledge Management (CIKM)*, pp. 1265-1274, 2011.

Investigation of Web Query Refinement via Topic Analysis and Learning with Personalization (Lidong Bing, and Lam Wai), *Proceedings of the 2nd SIGIR Workshop on Query Representation and Understanding (SIGIR-QRU)*, 2011.

Learning ontology resolution for document representation and its applications in text mining (Lidong Bing, Bai Sun, Shan Jiang, Yan Zhang, Wai Lam), *Proceedings of the 19th ACM Conference on Information and Knowledge Management (CIKM)*, pp. 1713-1716, 2010.

[Master study]

Weighting Links Using Lexical and Positional Analysis in Web Ranking (Yi Zhang, Yexin Wang, Lidong Bing, Yan Zhang), *Proceedings of the ninth International Conference on Web-Age Information Management (WAIM)*, pp. 9-16, 2008.

Primary content extraction with Mountain Model (Lidong Bing, Yexin Wang, Yan Zhang, Hui Wang), *Proceedings of 8th IEEE International Conference on Computer and Information Technology (CIT)*, pp. 479-484, 2008.

LET: Towards More Precise Clustering of Search Results (Yi Zhang, Lidong Bing, Yexin Wang, Yan Zhang), *Proceedings of the fourth International Conference on Fuzzy Systems and Knowledge Discovery (FSKD)*, pp. 385-389, 2007.

PRESENTATION AND TALK

Knowledge Extraction from Semi-structured Web Records and Entity-centric Documents. *Noah's Ark Lab of Huawei Inc.* 2016.

Knowledge Extraction from Semi-structured Web Records and Entity-centric Documents. *Department of Computer Science, The University of Iowa.* 2016.

Distant IE by Bootstrapping Using Lists and Document Structure. *AAAI, Phoenix, Arizona USA.* 2016.

Knowledge Extraction from Semi-structured Web Records and Entity-centric Documents. *Department of Computer Science, University of Illinois at Chicago.* 2016.

Knowledge Collection from Unstructured Web Data. *NELL Group, Machine Learning Department, Carnegie Mellon University.* 2015.

Reader Interest-Aware News Summarization for Smart Phone Users. *Noah's Ark Lab of Huawei Inc.* 2014.

Web Page Segmentation with Structured Prediction and its Application in Web Page Classification. *SIGIR, Gold Coast, Australia.* 2014.

Information Discovery from Semi-structured Record Sets on the Web - From Unstructured Web to Knowledge. *Web Data Mining Group of Baidu Inc.* 2014.

Website Community Mining from Query Logs with Two-phase Clustering. *CICLing, Kathmandu, Nepal.* 2014.

Web Knowledge Collection and Web Query Analysis. *Shanghai Jiao Tong University*. 2014.

Abstractive Multi-Document Summarization via Phrase Selection and Merging. *Noah's Ark Lab of Huawei Inc.* 2014.

Information Discovery from Semi-structured Record Sets on the Web - From Unstructured Web to Knowledge. *Fudan University*. 2013.

Wikipedia Entity Expansion and Attribute Extraction from the Web Using Semi-supervised Learning. *WSDM, Rome, Italy*. 2013.

Using Query Log and Social Tagging to Refine Queries Based on Latent Topics. *CIKM, Glasgow, UK*. 2011.

Towards a Unified Solution: Data Record Region Detection and Segmentation. *CIKM, Glasgow, UK*. 2011.

PROFESSIONAL ACTIVITIES

Associate Editor and Reviewer of journals

Associate Editor of Neurocomputing, since 2019.

Transactions of the Association for Computational Linguistics, since 2019

ACM Transactions on Information Systems (TOIS), since 2014

IEEE Transactions on Knowledge and Data Engineering (TKDE), since 2014

ACM Transactions on the Web (TWEB), since 2014

ACM Transactions on Intelligent Systems and Technology (TIST), since 2014

Computational Linguistics, since 2014

Journal of the Association for Information Science and Technology (JASIST), since 2014

Expert Systems With Applications, since 2016

Information Processing and Management, since 2016

Artificial Intelligence Review, since 2015

Knowledge-Based Systems (KBS), since 2014

Neural Networks, since 2014

Transactions on Asian and Low-Resource Language Information Processing (TALLIP), since 2013

Neural Computing and Applications Journal (NCA), 2012

Regular AC, SPC and PC of conferences

The Annual Meeting of the Association for Computational Linguistics (ACL)

The Conference on Empirical Methods in Natural Language Processing (EMNLP)

The AAAI Conference on Artificial Intelligence (AAAI)

International World Wide Web Conference (WWW)

The International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)

The International Joint Conference on Artificial Intelligence (IJCAI)

The ACM International Conference on Information and Knowledge Management (CIKM)

The International Joint Conference on Natural Language Processing (IJCNLP)

The Asia Information Retrieval Societies Conference (AIRS)

JOINT PHD STUDENTS

Qingyu Tan (National University of Singapore, 2020 -)
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Ran Zhou (Nanyang Technological University, 2019 -)
Linlin Liu (Nanyang Technological University, 2019 -)
Liyang Cheng (Singapore University of Technology and Design, 2019 -)
Lu Xu (Singapore University of Technology and Design, 2019 -)

OTHER STUDENT
MENTORING

Zhanming Jie (Singapore University of Technology and Design, 2019 -)
Yan Zhang (Singapore University of Technology and Design, 2019 -)
Qian Yu (The Chinese University of Hong Kong, 2018 -)
Yifan Gao (The Chinese University of Hong Kong, 2018 -)
Jingjing Li (The Chinese University of Hong Kong, 2018 -)
Zihao Fu (The Chinese University of Hong Kong, 2018 -)
Juntao Li (Peking University, 2018 -)
Mingyue Shang (Peking University, 2018 - 2018)
Xin Li (The Chinese University of Hong Kong, 2017 -)
Yi Liao (The Chinese University of Hong Kong, 2013 - 2014, 2017 - 2018)
Mingyang Ling (Carnegie Mellon University, 2015)
Sneha Chaudhari (Carnegie Mellon University, 2015)
Piji Li (The Chinese University of Hong Kong, 2014 - 2015)
Bei Shi (The Chinese University of Hong Kong, 2014 - 2015)
Shan Jiang (Peking University, 2011 - 2013)

HONOR AND
FELLOWSHIP

Staff Travel Grant, The Chinese University of Hong Kong, 2013 and 2014
Postdoctoral Fellowship of Faculty of Engineering, The Chinese University of Hong Kong, 2013
Postgraduate Student Travel Grant, The Chinese University of Hong Kong, 2011
Postgraduate Scholarship, The Chinese University of Hong Kong, 2009 - 2012
Outstanding Scholarship of CNPC, Peking University, 2008
Second Grade Scholarship, Northeast Normal University, 2006
Second Grade National Scholarship, 2005
First Grade Scholarship, Northeast Normal University, 2003, 2004 and 2005
Outstanding Graduate, Northeast Normal University, 2006
Outstanding University Student, Changchun city, 2005

LANGUAGE

Mandarin (Native), English (Fluent)