# **Lingpeng Kong**

https://ikekonglp.github.io/

## **EMPLOYMENT**

Assistant Professor, Department of Computer Science, The University of Hong Kong, 2020 - present

Senior Research Scientist, Google DeepMind, 2019 - 2020

Research Scientist, Google DeepMind, 2017 - 2019

Software Engineer, IBM China Systems and Technology Lab, 2011 - 2012

*Research Internships*: Google DeepMind (2017), Google Research (2016), University of Washington (2015-17), Harvard University (2015), NEC Laboratories China (2011), Tsinghua University (2010).

## **EDUCATION**

Ph.D. Computer Science, Carnegie Mellon University, 2017

*Thesis topic*: Neural Representation Learning in Linguistic Structured Prediction [68] *Committee*: Noah A. Smith\*, Chris Dyer\*, Alan W. Black, Michael Collins (\*co-chair)

M.S. Computer Science, Carnegie Mellon University, 2015

B.E. Computer Science, Beijing Language and Culture University, 2011

## AWARDS AND SERVICES

2024 Area Chair, ICLR.

2023 Oral, ICLR [30]. Spotlight, ICLR [31,32]. Area Chair, ICML / ICLR / NeurIPS / EMNLP. Action Editor, ACL Rolling Review (ARR). Senior Area Chair, IJCNLP/AACL.

2022 Spotlight, ICLR [50]. Spotlight, NeurIPS [40,41]. Area Chair, NeurIPS / ICLR / EMNLP.

2021 Tencent AI Lab Rhino-Bird Award. Area Chair, ICLR. Spotlight, ICLR [53].

2020 Area Chair, NAACL. Spotlight, ICLR [54].

2017 Outstanding Paper Award, EACL [58].

# PROFESSIONAL ACTIVITIES

Journal reviewer, Transactions of the Association for Computational Linguistics (TACL) 2015 -

Journal reviewer, The Journal of Artificial Intelligence Research (JAIR) 2016 -

Action Editor, ACL Rolling Review (ARR) 2023 -

Area chair: IJCNLP/AACL(2023), EMNLP (2023), NeurIPS (2023), ICML (2023), ICLR (2023), NeurIPS (2022), COLING (2022), EMNLP (2022), ICLR (2022), NLPCC (2021), NAACL (2020).

Program comittee member: ICML (2020; 2019; 2018; 2017), ACL (2020; 2019; 2017; 2016), NeurIPS (2017), EMNLP (2020; 2017; 2016; 2015), ICLR (2017), NAACL (2016), COLING (2016), and other various conferences and workshops.

## **ADVISING**

# PH.D., completed

• Jiahui Gao (2019-2023); [15,31,35,36,50]

# PH.D., post-thesis proposal

- Lin Zheng (2021-); University Postgraduate Fellowship; M.Braun Postgraduate Prize in Computer Science; [20,28,30,43,44,51]
- Qintong Li (2021-); [22,25,36,46]

#### PH.D., pre-thesis proposal

- Shansan Gong (2023-); HKU Presidential PhD Scholarship (HKU-PS); [17,33]
- Chenxin An (2023-); Hong Kong PhD Fellowship (HKPF); [40]
- Lei Li<sup>1</sup> (2023-); [14,19]
- Zhenyu Wu<sup>2</sup> (2023-);
- Chang Ma (2022-); [18]
- Xueliang Zhao (2022-); [26]
- Jiacheng Ye<sup>3</sup> (2022-); [16,21,27,31,35,36]
- Yiheng Xu<sup>4</sup> (2022-);

# GRADUATE STUDENT VISITORS AND INDEPENDENT STUDY PROJECTS

```
2023: Zhiheng Lyu, Qingxiu Dong [14,19]
2022: Rui Shao, Dantong Li, Jiayi Xin, Chenxin An, Mukai Li [17,33], Haiteng Zhao [18]
2021: Xijia Tao, Xiangwei Kong, Shuailong Zhu, Jiahui Gao, Ya-Cheng Hsu, Jakob Prange (Georgetown University) [45], Chengzu Li [37], Yuval Kansal, King Min Hao, Ke Ma, Jiacheng Ye
2020: Zhiyong Wu [47,51,52], Hao Peng (University of Washington) [48,53], Huijie Pan [44], Yiming Wang, Chiu Yu Ying
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## TEACHING EXPERIENCE

Instructor, Machine Learning, The University of Hong Kong, Spring 2022 - 2023, Fall 2023 Instructor, Natural Language Processing, The University of Hong Kong, Fall 2021 - 2022, Fall 2023 Teaching Assistant, Natural Language Processing, Carnegie Mellon University, Spring 2015 Teaching Assistant, Machine Learning, Carnegie Mellon University, Spring 2013

<sup>&</sup>lt;sup>1</sup>Co-advisor: Qi Liu (HKU)

<sup>&</sup>lt;sup>2</sup>Shanghai Jiao Tong University (SJTU)

<sup>&</sup>lt;sup>3</sup>Co-advisor: Tao Yu (HKU)

<sup>&</sup>lt;sup>4</sup>Co-advisor: Tao Yu (HKU)

#### **PUBLICATIONS**

#### PREPRINTS & TECHNICAL REPORTS

- 1. Dani Yogatama, Cyprien de Masson d'Autume, Jerome Connor, Tomas Kocisky, Mike Chrzanowski, Lingpeng Kong, Angeliki Lazaridou, Wang Ling, Lei Yu, Chris Dyer, Phil Blunsom, Learning and Evaluating General Linguistic Intelligence, arXiv:1901.11373, February 2019.
- 2. Jiangtao Feng, Lingpeng Kong, Po-Sen Huang, Chong Wang, Da Huang, Jiayuan Mao, Kan Qiao, Dengyong Zhou, Neural Phrase-to-Phrase Machine Translation, arXiv:1811.02172, November 2018.
- 3. Lei Yu, Cyprien de Masson d'Autume, Chris Dyer, Phil Blunsom, Lingpeng Kong, Wang Ling, Sentence Encoding with Tree-constrained Relation Networks, arXiv:1811.10475, November 2018.
- 4. Chris Alberti, Daniel Andor, Ivan Bogatyy, Michael Collins, Dan Gillick, Lingpeng Kong, Terry Koo, Ji Ma, Mark Omernick, Slav Petrov, Chayut Thanapirom, Zora Tung, David Weiss, SyntaxNet Models for the CoNLL 2017 Shared Task, arXiv:1703.04929, March 2017. [Link]
- Lingpeng Kong, Chris Alberti, Daniel Andor, Ivan Bogatyy, David Weiss, DRAGNN: A Transition-based Framework for Dynamically Connected Neural Networks, arXiv:1703.04474, March 2017. [GitHub][Google AI Blog]
- 6. Graham Neubig, Chris Dyer, Yoav Goldberg, Austin Matthews, Waleed Ammar, Antonios Anastasopoulos, Miguel Ballesteros, David Chiang, Daniel Clothiaux, Trevor Cohn, Kevin Duh, Manaal Faruqui, Cynthia Gan, Dan Garrette, Yangfeng Ji, Lingpeng Kong, Adhiguna Kuncoro, Gaurav Kumar, Chaitanya Malaviya, Paul Michel, Yusuke Oda, Matthew Richardson, Naomi Saphra, Swabha Swayamdipta, Pengcheng Yin, DyNet: The Dynamic Neural Network Toolkit, arXiv:1701.03980, January 2017. [GitHub]
- 7. Lingpeng Kong, and Noah A. Smith, An Empirical Comparison of Parsing Methods for Stanford Dependencies, arXiv:1404.4314, April 2014. [code]

#### PEER-REFEREED PUBLICATIONS

## Journal papers

- 8. Zhen Qin, Weixuan Sun, Kaiyue Lu, Dongxu Li, Xiaodong Han, Yuchao Dai, Lingpeng Kong, and Yiran Zhong, Linearized Relative Positional Encoding, In Transactions on Machine Learning Research (TMLR), 2023
- 9. Weixuan Sun, Zhen Qin, Hui Deng, Jianyuan Wang, Yi Zhang, Kaihao Zhang, Nick Barnes, Stan Birchfield, Lingpeng Kong, and Yiran Zhong, Vicinity Vision Transformer, In IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2023
- 10. Dani Yogatama, Cyprien de Masson d'Autume, Lingpeng Kong, Adaptive Semiparametric Language Models, Transactions of the Association for Computational Linguistics (TACL), April 2021.
- 11. Adhiguna Kuncoro\*, Lingpeng Kong\*, Daniel Fried\*, Dani Yogatama, Laura Rimell, Chris Dyer, Phil Blunsom, Syntactic Structure Distillation Pretraining For Bidirectional Encoders, Transactions of the Association for Computational Linguistics (TACL), September 2020.
- 12. Lei Yu, Laurent Sartran, Wojciech Stokowiec, Wang Ling, Lingpeng Kong, Phil Blunsom, Chris Dyer, Better Document-level Machine Translation with Bayes' Rule, Transactions of the Association for Computational Linguistics (TACL), April 2020.
- 13. Hao Tang, Liang Lu, Lingpeng Kong, Kevin Gimpel, Karen Livescu, Chris Dyer, Noah A. Smith, Steve Renals, End-to-End Neural Segmental Models for Speech Recognition, IEEE Journal of Selected Topics in Signal Processing, August 2017.

#### Peer-refereed conference publications

- Lei Li, Jingjing Xu, Qingxiu Dong, Ce Zheng, Qi Liu, Lingpeng Kong, Xu Sun, Can Language Models Understand Physical Concepts?, In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Singapore, December 2023.

  EMNLP 2023
- 15. Renjie Pi, Jiahui Gao, Shizhe Diao, Rui Pan, Hanze Dong, Jipeng Zhang, Lewei Yao, Jianhua Han, Hang Xu, Lingpeng Kong, Tong Zhang, DetGPT: Detect What You Need via Reasoning, In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Singapore, December 2023.

  EMNLP 2023
- Jiacheng Ye, Chengzu Li, Lingpeng Kong, Tao Yu, Generating Data for Symbolic Language with Large Language Models, In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Singapore, December 2023.

  EMNLP 2023
- Shansan Gong, Mukai Li, Jiangtao Feng, Zhiyong Wu, Lingpeng Kong, Bridging Discrete and Continuous Text Spaces for Accelerated Seq2Seq Diffusion Models, In Findings of the Conference on Empirical Methods in Natural Language Processing, Singapore, December 2023.
   EMNLP 2023 Findings
- Haiteng Zhao, Shengchao Liu, Chang Ma, Hannan Xu, Jie Fu, Zhi-Hong Deng, Lingpeng Kong, Qi Liu, GIM-LET: A Unified Graph-Text Model for Instruction-Based Molecule Zero-Shot Learning, In Advances in Neural Information Processing Systems, New Orleans, Louisiana, December 2023.

  NeurIPS 2023
- Qingxiu Dong, Jingjing Xu, Lingpeng Kong, Zhifang Sui, Lei Li, Statistical Knowledge Assessment for Generative Language Models, In Advances in Neural Information Processing Systems, New Orleans, Louisiana, December 2023.

  NeurIPS 2023
- 20. Shuyang Jiang, Jun Zhang, Jiangtao Feng, Lin Zheng, and Lingpeng Kong, Attentive Multi-Layer Perceptron for Non-autoregressive Generation, In Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Turin, Italy, September 2023. ECML/PKDD 2023
- 21. Zhiyong Wu\*, Yaoxiang Wang\*, Jiacheng Ye\*, and Lingpeng Kong, Self-adaptive In-context Learning, In Proceedings of the Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, July 2023.
- 22. Qintong Li, Zhiyong Wu, Lingpeng Kong, and Wei Bi, Explanation Regeneration via Information Bottleneck, In Findings of the Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, July 2023.
  ACL 2023 Findings
- Fei Yuan, Yinquan Lu, Wenhao Zhu, Lingpeng Kong, Lei Li, and Jingjing Xu, Lego-MT: Learning Detachable Models for Massively Multilingual Machine Translation, In Findings of the Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, July 2023.

  ACL 2023 Findings
- Wenhao Zhu, Jingjing Xu, Shujian Huang, Lingpeng Kong, and Jiajun Chen, INK: Injecting kNN Knowledge in Nearest Neighbor Machine Translation, In Proceedings of the Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, July 2023.

  ACL 2023
- 25. Jiyue Jiang, Sheng Wang, Qintong Li, Lingpeng Kong, and Chuan Wu, A Cognitive Stimulation Therapy Dialogue System with Multi-Source Knowledge Fusion for Elders with Cognitive Impairment, In Proceedings of the Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, July 2023. ACL 2023
- Xueliang Zhao, Tingchen Fu, Lemao Liu, Lingpeng Kong, Shuming Shi, and Rui Yan, SORTIE: Dependency-Aware Symbolic Reasoning for Logical Data-to-text Generation, In Findings of the Annual Meeting of the Association for Computational Linguistics, Toronto, Canada, July 2023.

  ACL 2023 Findings
- Jiacheng Ye, Zhiyong Wu, Jiangtao Feng, Tao Yu, and Lingpeng Kong, Compositional Exemplars for In-context Learning, In Proceedings of the International Conference on Machine Learning, Honolulu, Hawaii, July 2023.
   [GitHub]

  ICML 2023

- Jun Zhang\*, Shuyang Jiang\*, Jiangtao Feng, Lin Zheng, and Lingpeng Kong, CAB: Comprehensive Attention Benchmarking on Long Sequence Modeling, In Proceedings of the International Conference on Machine Learning, Honolulu, Hawaii, July 2023.

  ICML 2023
- Xuyang Shen, Dong Li, Jinxing Zhou, Zhen Qin, Bowen He, Xiaodong Han, Aixuan Li, Yuchao Dai, Lingpeng Kong, Meng Wang, and Yiran Zhong, Fine-grained Audible Video Description, In Proceedings of the Conference on Computer Vision and Pattern Recognition, Vancouver, Canada, June 2023.

  CVPR 2023
- 30. Lin Zheng, Jianbo Yuan, Chong Wang, and Lingpeng Kong, Efficient Attention via Control Variates, In International Conference on Learning Representations, Kigali, Rwanda, May 2023. [Oral] ICLR 2023
- 31. Jiahui Gao, Renjie Pi, Lin Yong, Hang Xu, Jiacheng Ye, Zhiyong Wu, Weizhong Zhang, Xiaodan Liang, Zhenguo Li, and Lingpeng Kong, Self-Guided Noise-Free Data Generation for Efficient Zero-Shot Learning, In International Conference on Learning Representations, Kigali, Rwanda, May 2023. [Spotlight] ICLR 2023
- 32. Zhen Qin, Xiaodong Han, Weixuan Sun, Bowen He, Dong Li, Dongxu Li, Yuchao Dai, Lingpeng Kong, and Yiran Zhong, Toeplitz Neural Network for Sequence Modeling, In International Conference on Learning Representations, Kigali, Rwanda, May 2023. [Spotlight] ICLR 2023
- Shansan Gong, Mukai Li, Jiangtao Feng, Zhiyong Wu, and Lingpeng Kong, DiffuSeq: Sequence to Sequence Text Generation with Diffusion Models, In International Conference on Learning Representations, Kigali, Rwanda, May 2023.

  ICLR 2023
- Sijie Chen, Zhiyong Wu, Jiangjie Chen, Zhixing Li, Yang Liu, and Lingpeng Kong, Unsupervised Explanation Generation via Correct Instantiations, In Proceedings of AAAI Conference on Artificial Intelligence, Washington, DC, February 2023.

  AAAI 2023
- 35. Jiacheng Ye, Jiahui Gao, Zhiyong Wu, Jiangtao Feng, Tao Yu, and Lingpeng Kong, ProGen: Progressive Zeroshot Dataset Generation via In-context Feedback, In Findings of the Conference on Empirical Methods in Natural Language Processing, Abu Dhabi, December 2022.

  EMNLP 2022 Findings
- Jiacheng Ye\*, Jiahui Gao\*, Qintong Li, Hang Xu, Jiangtao Feng, Zhiyong Wu, Tao Yu, and Lingpeng Kong, ZeroGen: Efficient Zero-shot Learning via Dataset Generation, In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Abu Dhabi, December 2022.

  EMNLP 2022
- 37. Tianbao Xie\*, Chen Henry Wu\*, Peng Shi, Ruiqi Zhong, Torsten Scholak, Michihiro Yasunaga, Chien-Sheng Wu, Ming Zhong, Pengcheng Yin, Sida Wang, Victor Zhong, Bailin Wang, Chengzu Li, Connor Boyle, Ansong Ni, Ziyu Yao, Dragomir Radev, Caiming Xiong, Lingpeng Kong, Rui Zhang, Noah A. Smith, Luke Zettlemoyer, and Tao Yu, UnifiedSKG: Unifying and Multi-Tasking Structured Knowledge Grounding with Text-to-Text Language Models, In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Abu Dhabi, December 2022.
- Zhen Qin, Xiaodong Han, Weixuan Sun, Dongxu Li, Lingpeng Kong, Nick Barnes, and Yiran Zhong, The Devil in Linear Transformer, In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Abu Dhabi, December 2022.

  EMNLP 2022
- Changlong Yu, Tianyi Xiao, Lingpeng Kong, Yangqiu Song, and Wilfred Ng, An Empirical Revisiting of Linguistic Knowledge Fusion in Language Understanding Tasks, In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Abu Dhabi, December 2022.

  EMNLP 2022
- 40. Chenxin An, Jiangtao Feng, Kai Lv, Lingpeng Kong, Xipeng Qiu, and Xuanjing Huang, CoNT: Contrastive Neural Text Generation, In Advances in Neural Information Processing Systems, New Orleans, Louisiana, November 2022. [Spotlight]
  NeurIPS 2022

- Yixuan Su, Tian Lan, Yan Wang, Dani Yogatama, Lingpeng Kong, and Nigel Collier, A Contrastive Framework for Neural Text Generation, In Advances in Neural Information Processing Systems, New Orleans, Louisiana, November 2022. [Spotlight]

  NeurIPS 2022
- Jinxing Zhou, Jianyuan Wang, Jiayi Zhang, Weixuan Sun, Jing Zhang, Stan Birchfield, Dan Guo, Lingpeng Kong, Meng Wang, and Yiran Zhong, Audio-Visual Segmentation, In Proceedings of the European Conference on Computer Vision, October 2022.

  ECCV 2022
- 43. Lin Zheng, Chong Wang, and Lingpeng Kong, Linear Complexity Randomized Self-attention Mechanism, In Proceedings of the International Conference on Machine Learning, July 2022. ICML 2022
- 44. Lin Zheng, Huijie Pan, and Lingpeng Kong, Ripple Attention for Visual Perception with Sub-quadratic Complexity, In Proceedings of the International Conference on Machine Learning, July 2022. ICML 2022
- 45. Jakob Prange, Nathan Schneider, and Lingpeng Kong, Linguistic Frameworks Go Toe-to-Toe at Neuro-Symbolic Language Modeling, In Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics, July 2022.
  NAACL 2022
- 46. Qintong Li, Piji Li, Wei Bi, Zhaochun Ren, Yuxuan Lai, and Lingpeng Kong, Event Transition Planning for Open-ended Text Generation, In findings of the Annual Meeting of the Association for Computational Linguistics, May 2022.
  ACL 2022 Findings
- 47. Zhiyong Wu, Wei Bi, Xiang Li, Lingpeng Kong, and Ben Kao, Lexical Knowledge Internalization for Neural Dialog Generation, In Proceedings of the Annual Meeting of the Association for Computational Linguistics, May 2022.
  ACL 2022
- 48. Hao Peng, Jungo Kasai, Nikolaos Pappas, Dani Yogatama, Zhaofeng Wu, Lingpeng Kong, Roy Schwartz, and Noah A. Smith, ABC: Attention with Bounded-memory Control, In Proceedings of the Annual Meeting of the Association for Computational Linguistics, May 2022.
  ACL 2022
- Zhen Qin, Weixuan Sun, Hui Deng, Dongxu Li, Yunshen Wei, Baohong Lv, Junjie Yan, Lingpeng Kong, and Yiran Zhong, cosFormer: Rethinking Softmax In Attention, In International Conference on Learning Representations, April 2022.

  ICLR 2022
- 50. Han Shi\*, Jiahui Gao\*, Hang Xu, Xiaodan Liang, Zhenguo Li, Lingpeng Kong, Stephen M. S. Lee, and James Kwok, Revisiting Over-smoothing in BERT from the Perspective of Graph, In International Conference on Learning Representations, April 2022. [Spotlight] ICLR 2022
- 51. Lin Zheng, Zhiyong Wu and Lingpeng Kong, Cascaded Head-colliding Attention. In Proceedings of the Annual Meeting of the Association for Computational Linguistics, August 2021. ACL 2021
- 52. Zhiyong Wu, Lingpeng Kong, Wei Bi, Xiang Li and Ben Kao, Good for Misconceived Reasons: An Empirical Revisiting on the Need for Visual Context in Multimodal Machine Translation. In Proceedings of the Annual Meeting of the Association for Computational Linguistics, August 2021.
  ACL 2021
- 53. Hao Peng, Nikolaos Pappas, Dani Yogatama, Roy Schwartz, Noah Smith, and Lingpeng Kong, Random Feature Attention. In International Conference on Learning Representations, May 2021. [Spotlight] ICLR 2021
- 54. Lingpeng Kong, Cyprien de Masson d'Autume, Wang Ling, Lei Yu, Zihang Dai, and Dani Yogatama, A Mutual Information Maximization Perspective of Language Representation Learning. In International Conference on Learning Representations, Ethiopia, April 2020. [Spotlight]
  ICLR 2020
- 55. Cyprien de Masson d'Autume, Sebastian Ruder, Lingpeng Kong, and Dani Yogatama, Episodic Memory in Lifelong Language Learning. In Advances in Neural Information Processing Systems, Vancouver, Canada, December 2019.
  NeurIPS 2019

- Lingpeng Kong, Gabor Melis, Wang Ling, Lei Yu, and Dani Yogatama, Variational Smoothing in Recurrent Neural Network Language Models. In International Conference on Learning Representations, New Orleans, Louisiana, May 2019.

  ICLR 2019
- 57. Liang Lu, Lingpeng Kong, Chris Dyer, and Noah A. Smith, Multi-task Learning with CTC and Segmental CRF for Speech Recognition. In Proceedings of the Annual Conference of the International Speech Communication Association, Stockholm, Sweden, August 2017.
  INTERSPEECH 2017
- 58. Adhiguna Kuncoro, Miguel Ballesteros, Lingpeng Kong, Chris Dyer, Graham Neubig, and Noah A. Smith, What Do Recurrent Neural Network Grammars Learn About Syntax?. In Proceedings of the Conference of the European Chapter of the Association for Computational Linguistics, Valencia, Spain, January 2017. [Outstanding Paper Award]
  EACL 2017
- 59. Liang Lu\*, Lingpeng Kong\*, Chris Dyer, and Noah A. Smith, and Steve Renals, Segmental Recurrent Neural Networks for End-to-end Speech Recognition. In Proceedings of the Annual Conference of the International Speech Communication Association, San Francisco, California, September 2016. INTERSPEECH 2016
- 60. Adhiguna Kuncoro, Miguel Ballesteros, Lingpeng Kong, Chris Dyer, and Noah A. Smith, Distilling an Ensemble of Greedy Dependency Parsers into One MST Parser. In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Austin, TX, November 2016
  EMNLP 2016
- 61. Lingpeng Kong, Chris Dyer, and Noah A. Smith, Segmental Recurrent Neural Networks. In Proceedings of International Conference on Learning Representations, San Juan, Puerto Rico, May 2016. [GitHub]ICLR 2016
- Dani Yogatama, Lingpeng Kong, and Noah A. Smith, Bayesian Optimization of Text Representations. In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Lisboa, Portugal, September 2015.

  EMNLP 2015
- 63. Lingpeng Kong, Alexander M. Rush, and Noah A. Smith, Transforming Dependencies into Phrase Structures. In Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics, Denver, CO, May 2015. [GitHub]
  NAACL 2015
- 64. Lingpeng Kong, Nathan Schneider, Swabha Swayamdipta, Archna Bhatia, Chris Dyer and Noah A. Smith, A Dependency Parser for Tweets. In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Doha, October 2014. [GitHub]
  EMNLP 2014
- 65. William Yang Wang, Lingpeng Kong, Kathryn Mazaitis, and William W. Cohen, Dependency Parsing for Weibo: An Efficient Probabilistic Logic Programming Approach. In Proceedings of the Conference on Empirical Methods in Natural Language Processing, Doha, Qatar, October 2014.
  EMNLP 2014
- 66. Lingpeng Kong, and Likun Qiu, Formalization and Rules for Recognition of Satirical Irony. In Proceedings of the International Conference on Asian Language Processing, Penang, Malaysia, November 2011. IALP 2011
- 67. Likun Qiu, Lei Wu, Changjian Hu, Kai Zhao, and Lingpeng Kong, Improving Chinese Dependency Parsing with Self-Disambiguating Patterns. In Proceedings of the International Conference on Asian Language Processing, Penang, Malaysia, November 2011.
  IALP 2011

## **Thesis**

68. Lingpeng Kong, Neural Representation Learning in Linguistic Structured Prediction, CMU-LTI-17-008, Carnegie Mellon University, Pittsburgh, PA, October 2017.

#### **Peer-refereed workshop publications**

- 69. Yangfeng Ji, Trevor Cohn, Lingpeng Kong, Chris Dyer, Jacob Eisenstein, Document Context Language Models. In International Conference on Learning Representations Workshop Track, San Juan, Puerto Rico, May 2016.
- 70. Ting-Hao (Kenneth) Huang, Yun-Nung Chen, and Lingpeng Kong, ACBiMA: Advanced Chinese Bi-Character Word Morphological Analyzer. In Proceedings of The 8th SIGHAN Workshop on Chinese Language Processing, Beijing, China, July 2015. [GitHub]

## INVITED TALKS

2023 Invited Talk, Asian Engineering Deans' Summit.

Invited Talk, Tencent.

2022 Invited Talk, Tam Wing Fan Innovation Wing.

Westlake Engineering Lecture Series, Westlake University.

Colloquium, Nanjing University.

2021 Invited Talk, Tencent AI Lab.

Invited Talk, ByteDance.

Colloquium, Shenzhen Institutes of Advanced Technology (SIAT), Chinese Academy of Sciences.

Invited Talk, Zoom.

Invited Talk, HKU-TCL Joint Research Centre for Artificial Intelligence.

Keynote, Genetic and Evolutionary Computation Conference (GECCO-2021).

2020 Colloquium, University of Cambridge.

2019 Colloquium, Peking University.

Invited Talk, Fudan University.

Colloquium, University of Cambridge.

2017 Colloquium, National Taiwan University.

2016 Colloquium, Academia Sinica.