Dr Yunfei Long

Lecturer (R), Computer Science and Electronic Engineering

Web

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Overview

My research is focused on natural language understanding, mainly text processing (including multimodality processing), user profiling, emotion analysis, and digital mental health.

Education

Degrees

PhD The Hong Kong Polytechnic University 2015-2019

Postgraduate Training

Msc in Cognitive Science, University of Edinburgh, United Kingdom.

Teaching Activity

Academic Support Hours

Thursday 16:00-18:00

Modules taught

Team Project Challenge	2022-2023
Natural Language Engineering	2022-2023
Text Analytics	2022-2023
Natural Language Engineering	2022-2023
Team Project Challenge	2021-2022
Natural Language Engineering	2021-2022
Natural Language Engineering	2021-2022
Data Structures and Algorithms	2020-2021
Information Retrieval	2020-2021
Natural Language Engineering	2020-2021
Information Retrieval	2020-2021
Natural Language Engineering	2020-2021

Research-based degree supervisions

Huang G	2022-present
Jacutprakart J	2020-present

Professional Activity

Research Interests

Developing novel Natural Language Processing and Graph Representation Learning techniques for modelling health related data 2021-present

Journal reviewing / refereeing

Anonymous peer review for Transactions on Multimedia Computing Communications and Applications, ACM	2021-present
Anonymous peer review for Neurocomputing, Elsevier	2020-present

Anonymous peer review for Journal of the Association for Information Science and Technology, WILEY — 2019-present

Grants

Innovate UK (formerly Technology Strategy Board), Healthshare Limited KTP Application - Feb 2022 Submission, £255,681 — 2022-present

Innovate UK (formerly Technology Strategy Board), Horus Security KTP Application, £247,290 — 2021-present

Engineering and Physical Sciences Research Council, ExTRA-PPOLATE (Explainable Therapy Related Annotations: Patient & Practitioner Oriented Learning Assisting Trust & Engagement), £6,584 — 2020-present

Innovate UK (formerly Technology Strategy Board), Mondaq KTP 2, £248,656 — 2019-present

Publications

Ito-Jaeger, S., Perez Vallejos, E., Curran, T., Spors, V., Long, Y., Liguori, A., . . . Crawford, P. (n.d.). Digital video interventions and mental health literacy among young people: a scoping review.. *Journal of Mental Health*. doi:10.1080/09638237.2021.1922642

Malins, S., Figueredo, G., Jilani, T., Long, Y., Andrews, J., Rawsthorne, M., . . . Moghaddam, N. (n.d.). Developing an Automated Assessment of In-session Patient Activation for Psychological Therapy: Codevelopment Approach. *JMIR Medical Informatics*, *10*(11), e38168. doi:10.2196/38168

Fang, H., Xu, G., Long, Y., & Tang, W. (n.d.). An Effective ELECTRA-Based Pipeline for Sentiment Analysis of Tourist Attraction Reviews. *Applied Sciences*, *12*(21), 10881. doi:10.3390/app122110881

Fang, H., Chen, C., Long, Y., Xu, G., & Xiao, Y. (2022). DTCRSKG: A Deep Travel Conversational Recommender System Incorporating Knowledge Graph. *Mathematics*, *10*(9), 1402. doi:10.3390/math10091402

Wang, X., Long, Y., Qin, P., Huang, C., Guo, C., Gao, Y., & Huang, C. -R. (2022). From Complex Emotion Words to Insomnia and Mental Health: A Corpus-Based Analysis of the Online Psychological Consultation Discourse About Insomnia Problems in Chinese. In *Lecture Notes in Computer Science* (pp. 221-232). Springer International Publishing. doi:10.1007/978-3-031-06547-7_18

Zhao, Q., & Long, Y. (2022). A Diachronic Study on Linguistic Synesthesia in Chinese. In *Unknown Conference* (pp. 84-94). Springer International Publishing. doi:10.1007/978-3-031-06547-7_6

Jiang, X., Zhao, Q., Long, Y., Wang, Z., & Linguist, A. C. (2022). Chinese Synesthesia Detection: New Dataset and Models. In *FINDINGS OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS (ACL 2022)* (pp. 3877-3887). Retrieved from https://www.webofscience.com/

Xiang, R., Chersoni, E., Lu, Q., Huang, C., Li, W., & Long, Y. (2021). Lexical data augmentation for sentiment analysis. *Journal of the Association for Information Science and Technology*, *72*(11), 1432-1447. doi:10.1002/asi.24493

Wu, T., Zhou, J., Qu, W., Gu, Y., Li, B., Zhong, H., & Long, Y. (2021). Improving AMR parsing by exploiting the dependency parsing as an auxiliary task. *Multimedia Tools and Applications*, *80*(20), 30827-30838. doi:10.1007/s11042-020-09967-3

Zhao, Q., Xiao, Y., & Long, Y. (2021). Multi-task CNN for Abusive Language Detection. In *2021 IEEE 2nd International Conference on Pattern Recognition and Machine Learning (PRML)*. IEEE. doi:10.1109/prml52754.2021.9520387

Chen, I. -H., Long, Y., Lu, Q., & Huang, C. -R. (2021). Orthographic features for emotion classification in Chinese in informal short texts. *Language Resources and Evaluation*, *55*(2), 329-352. doi:10.1007/s10579-020-09515-3

Ong, Z. X., Dowthwaite, L., Perez Vallejos, E., Rawsthorne, M., & Long, Y. (n.d.). Measuring Online Wellbeing: A Scoping Review of Subjective Wellbeing Measures. *Frontiers in Psychology*, *12*. doi:10.3389/fpsyg.2021.616637

Lin, Z., Long, Y., Du, J., & Xu, R. (2021). A Multi-modal Sentiment Recognition Method Based on Multi-task Learning. *Beijing Daxue Xuebao (Ziran Kexue Ban)/Acta Scientiarum Naturalium Universitatis Pekinensis*, *57*(1), 7-15. doi:10.13209/j.0479-8023.2020.085

Jin, G., Zhou, J., Qu, W., Long, Y., & Gu, Y. (2021). Exploiting Rich Event Representation to Improve Event Causality Recognition. *Intelligent Automation & Soft Computing*, *29*(3), 161-173. doi:10.32604/iasc.2021.017440

Long, Y., Xu, H., Qi, P., Zhang, L., & Li, J. (2021). Graph Attention Network for Word Embeddings. In *Unknown Conference* (pp. 191-201). Springer International Publishing. doi:10.1007/978-3-030-78612-0_16

Shi, H., Qu, W., Wei, T., Zhou, J., Long, Y., Gu, Y., & Li, B. (2021). Hybrid Neural Network for Automatic Recovery of Elliptical Chinese Quantity Noun Phrases. *Computers, Materials & Continua*, *69*(3), 4113-4127. doi:10.32604/cmc.2021.019518

Wei, T., Qu, W., Zhou, J., Long, Y., Gu, Y., & Xia, Z. (2020). Improving Chinese Word Representation with Conceptual Semantics. *Computers, Materials & Continua*, *64*(3), 1897-1913. doi:10.32604/cmc.2020.010813

Bergin, A. D., Vallejos, E. P., Davies, E. B., Daley, D., Ford, T., Harold, G., . . . Hollis, C. (2020). Preventive digital mental health interventions for children and young people: a review of the design and reporting of research. *npj Digital Medicine*, *3*(1). doi:10.1038/s41746-020-00339-7

Xiang, R., Chersoni, E., Long, Y., Lu, Q., & Huang, C. -R. (2020). Lexical Data Augmentation for Text Classification in Deep Learning. In C. Goutte, & X. Zhu (Eds.), *Advances in Artificial Intelligence, Proceedings of the 33rd Canadian Conference on Artificial Intelligence, Canadian AI 2020, Ottawa, ON, Canada, May 13–15, 2020. Part of the Lecture Notes in Computer Science book series (LNCS, volume 12109). Also part of the Lecture Notes in Artificial Intelligence book sub series (LNAI, volume 12109)* (pp. 521-527). Ottawa, ON, Canada: Springer. doi:10.1007/978-3-030-47358-7_53

Zhao, Q., Long, Y., & Huang, C. -R. (2020). Linguistic Synaesthesia of Mandarin Sensory Adjectives: Corpus-Based and Experimental Approaches. In *Unknown Conference* (pp. 139-146). Springer International Publishing. doi:10.1007/978-3-030-38189-9_14

Shen, J., Ma, M. D., Xiang, R., Lu, Q., Vallejos, E. P., Xu, G., . . . Long, Y. (2020). Dual memory network model for sentiment analysis of review text. *Knowledge-Based Systems*, *188*. doi:10.1016/j.knosys.2019.105004

Xiang, R., Gao, X., Long, Y., Li, A., Chersoni, E., Lu, Q., & Huang, C. -R. (2020). Ciron: a New Benchmark Dataset for Chinese Irony Detection. In *Proceedings of the 12th Language Resources and Evaluation Conference* (pp. 5714-5720). Marseille, France: European Language Resources Association. Retrieved from https://www.aclweb.org/anthology/2020.lrec-1.701

Xiang, R., Long, Y., Wan, M., Gu, J., Lu, Q., & Huang, C. -R. (2020). Affection Driven Neural Networks for Sentiment Analysis. In *Proceedings of the 12th Language Resources and Evaluation Conference* (pp. 112-119). Marseille, France: European Language Resources Association. Retrieved from https://www.aclweb.org/anthology/2020.lrec-1.14

Zhong, H., Zhou, J., Qu, W., Long, Y., & Gu, Y. (2020). An Element-aware Multi-representation Model for Law Article Prediction. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Association for Computational Linguistics. doi:10.18653/v1/2020.emnlp-main.540

Zhou, J., Lu, Q., Gui, L., Xu, R., Long, Y., & Wang, H. (2019). MTTFsite: cross-cell type TF binding site prediction by using multi-task learning.. *Bioinformatics*, *35*(24), 5067-5077. doi:10.1093/bioinformatics/btz451

Xiang, R., Lu, Q., Jiao, Y., Zheng, Y., Ying, W., & Long, Y. (2019). Leveraging writing systems changes for deep learning based Chinese affective analysis. *International Journal of Machine Learning and Cybernetics*, *10* (11), 3313-3325. doi:10.1007/s13042-019-01019-z

Long, Y., Xiang, R., Lu, Q., Huang, C. -R., & Li, M. (n.d.). Improving attention model based on cognition grounded data for sentiment analysis. *IEEE Transactions on Affective Computing*. doi:10.1109/taffc.2019.2903056

Chen, I. -H., Zhao, Q., Long, Y., Lu, Q., & Huang, C. -R. (2019). Mandarin Chinese modality exclusivity norms. *PLoS One*, *14*(2). doi:10.1371/journal.pone.0211336

Chen, I. -H., Long, Y., Lu, Q., & Huang, C. -R. (2019). Metaphor Detection: Leveraging Culturally Grounded Eventive Information. *IEEE Access*, *7*, 10987-10998. doi:10.1109/access.2019.2892042