

CURRICULUM VITAE of Prof. Lu ZHANG (Ph.D.)

Name: Lu Zhang

Academic qualifications:

2004-2008: B.Eng. Tianjin University, Tianjin, China

2010-2012: M.Phil. The University of Hong Kong, Hong Kong, China

2012-2016: Ph.D. City University of Hong Kong, Hong Kong, China

Previous academic positions held:

2008-2010: Research Assistant, LKS Faculty of Medicine, The University of Hong Kong, Hong Kong, China

2014-2017: Honorary Research Officer, Imperial College London

2016-2016: Postdoctoral Scholar, City University of Hong Kong, Hong Kong, China

2016-2019: Postdoctoral Fellow, Stanford University, USA

Present academic position:

2019- Assistant Professor, Department of Computer Science, Hong Kong Baptist University, China

Five most relevant publications in the recent five years

1. Jiaying Chen, Chinwang Cheong, Liang Lan, Xin Zhou, Jiming Liu, Aiping Lyu, William K Cheung*, **Lu Zhang*** (Corresponding author). DeepDRIM: a deep neural network to reconstruct cell-type-specific gene regulatory network using single-cell RNA-Seq Data. Presented on **RECOMB-Seq 2021** and the extended version has been published on **Briefings in Bioinformatics** bbab325 (2021).

2. **Lu Zhang*** (Corresponding author), Xiaodong Fang, Herui Liao, Zhenmiao Zhang, Xin Zhou, Lijuan Han, Yang Chen, Qinwei Qiu, Shuai Cheng Li. A Comprehensive Investigation of Metagenome Assembly by Linked-Read Sequencing. **Microbiome** 8, 156 (2020).

3. **Lu Zhang**, Xin Zhou, Ziming Weng, Arend Sidow. De novo diploid genome assembly for genome-wide structural variant detection. **NAR Genomics and Bioinformatics** 2, 1, lqz018 (2020)

4. Ji-feng Guo[†], **Lu Zhang**[†] (co-first author), Kai Li, Jun-pu Mei, Jin Xue, Jia Chen, Xia Tang, Lu Shen, Hong Jiang, Chao Chen, Hui Guo, Xue-li Wu, Si-long Sun, Qian Xu, Qi-ying Sun, Piu Chan, Hui-fang Shang, Tao Wang, Guo-hua Zhao, Jing-yu Liu, Xue-feng Xie, Yi-qi Jiang, Zhen-hua Liu, Yu-wen Zhao, Zuo-bin Zhu, Jia-da Li, Zheng-mao Hu, Xin-xiang Yan, Xiao-dong Fang, Guang-hui Wang, Feng-yu Zhang, Kun Xia, Chun-yu Liu, Xiong-wei Zhu, Zhen-yu Yue, Shuai Cheng Li, Huai-bin Cai, Zhuo-hua Zhang, Ran-hui Duan, and Bei-sha Tang. De novo coding mutations contribute to early onset Parkinson's disease. **Proceedings of the National Academy of Sciences of the United States of America**, 15 (45) 11567-11572 (2018)

5. Xin Zhou, **Lu Zhang**, Ziming Weng, David L. Dill, Arend Sidow. Aquila enables reference-assisted diploid personal genome assembly and comprehensive variant detection based on linked reads. **Nature Communications** 12, 1077 (2021)