Jiayu SHANG

Department of Electrical Engineering
City University of Hong Kong
jyshang2-c@my.cityu.edu.hk
+(852) 5611-3626

Education

2019.09 - current (Ph. D. student) City University of Hong Kong
Department of Electrical Engineering
- GPA: 3.75/4

2014.09 – 2018.06 (BS) Sun Yat-sen University, Guangdong
School of Data and computer science
- GPA: 3.7/4

Publication

1. **Shang, J.**, Tang, X., Sun, Y. (2023). PhaTYP: predicting the lifestyle for bacteriophages using BERT, *Briefings in Bioinformatics*, Volume 24.
2. Jiang, J. Z., Yuan, W. G., **Shang, J.**, Shi, Y. H., Yang, L. L., Liu, M., ... & Yuan, L. H. (2023). Virus classification for viral genomic fragments using PhaGCN2. Briefings in Bioinformatics, Volume 24 **(co-first author).**
3. Zhu Y., **Shang, J.**, Peng, C., & Sun, Y. (2022). Phage family classification under Caudoviricetes: A review of current tools using the latest ICTV classification framework. Frontiers in Microbiology, Volume 13 **(co-first author)**.
4. Cai, D., **Shang, J.**, & Sun, Y. (2022). HaploDMF: viral haplotype reconstruction from long reads via deep matrix factorization. Bioinformatics, Volume 38.
5. Tang, X., **Shang, J.**, & Sun, Y. (2022). RdRp-based sensitive taxonomic classification of RNA viruses for metagenomic data. Briefings in Bioinformatics, Volume 23.
6. **Shang, J.,** Tang, X., Guo, R., & Sun, Y. (2022). Accurate identification of bacteriophages from metagenomic data using Transformer. Briefings in Bioinformatics, Volume 23.
7. **Shang, J.**, & Sun, Y. (2022). CHERRY: a Computational metHod for accuratE pRediction of virus–pRokarYotic interactions using a graph encoder–decoder model. Briefings in Bioinformatics, Volume 23.
8. Du, N., **Shang, J.**, & Sun, Y. (2021). Improving protein domain classification for third-generation sequencing reads using deep learning. BMC genomics, Volume 22 **(co-first author)**.

9. **Shang, J.**, Jiang jinzhe, & Sun, Y. (2021) "Bacteriophage classification for assembled contigs using Graph Convolutional Network." ISMB/ECCB 2021 (Accepted, 18% acceptance rate)
10. **Shang, J.**, & Sun, Y. (2021). Predicting the hosts of prokaryotic viruses using GCN-based semi-supervised learning. BMC biology, Volume 19.
11. **Shang, J.**, & Sun, Y. (2021). CHEER: HierarCHical taxonomic classification for viral mEtagEnomic data via deep leaRning. Methods, Volume 189.
12. Chen, J., **Shang, J.**, Wang, J., & Sun, Y. (2019). A binning tool to reconstruct viral haplotypes from assembled contigs. BMC bioinformatics, Volume 20.
13. Li, S., **Shang, J.**, Duan, Z., & Huang, J. (2018). Fast detection method of quick response code based on run-length coding. IET Image Processing, Volume 12,
14. **Shang, J.**, Li, S., & Huang, J. (2018, April). A robust fuzzy local information c-means clustering algorithm with noise detection. In Ninth international conference on graphic and image processing (ICGIP 2017)

Awards

3. Research Tuition Scholarship **(2020-2023)**, City University of Hong Kong.
4. Outstanding Academic Performance Award **(2020-2023)**, City University of Hong Kong.
5. Research student symposium 2021 best paper award **(1st Prize)**, City University of Hong Kong.
6. The first prize Scholarship **(2016-2017)**, Sun Yat-sen University.
7. The third prize Scholarship **(2015-2016)**, Sun Yat-sen University.

Others

1. Research Assistant **(09. 2018 - 01. 2019)**, Department of Computer Science, The Hong Kong Polytechnic University.
2. Research Assistant **(02. 2019 - 08. 2019)**, Department of Information Engineering, The Chinese University of Hong Kong.