

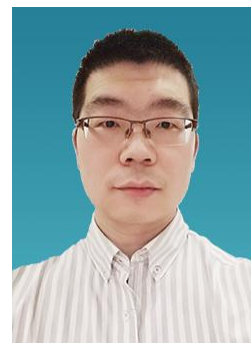
## Curriculum Vitae of Dr. Jia Wang

Associate Professor in Computer Science and Technology

College of Informatics, Huazhong Agricultural University

1 Shizishan Jie, Hongshan Qu, Wuhan 430070, China

E-mail: [wang.jia@mail.hzau.edu.cn](mailto:wang.jia@mail.hzau.edu.cn) / Tel.: 0086-27-87285078



### Research interest

My research area includes **Machine learning** and **Bioinformatics**. I mainly pay my attention to construct diverse prediction models for different pathogenic microbes such as influenza A virus, West Nile virus, Pasteurella multocida and so on. These models could be applied in the predictions of interspecies transmission, protein interactions, antigenic variation, host tropism, etc.

### Education & academic appointments

- 11/2018-present    **Associate Professor in Computer Science**, College of Informatics, Huazhong Agricultural University, Wuhan, China
- 07/2014-11/2018    **Lecturer in Computer Science**, College of Informatics, Huazhong Agricultural University, Wuhan, China
- 12/2012-06/2014    **Lecturer in Computer Science**, College of Science, Huazhong Agricultural University, Wuhan, China
- 09/2008-12/2012    **PhD**, School of Computer Science and Technology, Huazhong University of Science Technology, Wuhan, China
- 09/2006-06/2008    **Master**, School of Computer Science and Technology, Huazhong University of Science Technology, Wuhan, China
- 09/1998-06/2002    **Bachelor**, School of Computer Science and Information Engineering, Hubei University, Wuhan, China

### Ongoing and finished third-party funding

- 01/2018    Research on breeding and disease control services for smart pig farm based on "Internet Plus" (Grant number: 2662018JC034), Fundamental Research Funds for the Central Universities, 2018-2020. (300,000 RMB Yuan for 3 years)

01/2015 Bioinformatics study on avian influenza virus transmission from avian to human (Grant number: 2662016PY035), Fundamental Research Funds for the Central Universities (80,000 RMB Yuan for 1 years)

### **Peer-review & editorial duties**

I have served as a reviewer for Plos One and Journal of Biomolecular Structure & Dynamics.

### **Publications**

(\* for corresponding author, # for co-first author)

1. Zhong Peng, Junyang Liu, Wan Liang, Fei Wang, Li Wang, Xueying Wang, Lin Hua, Huanchun Chen; Brenda A Wilson\*; **Jia Wang\***; Bin Wu\*. Development of an online tool for *Pasteurella multocida* genotyping and genotypes of *Pasteurella multocida* from different hosts, *Frontiers in Veterinary Science*, 2021, 8(771157)
2. Jing Chen, Jun Sun, Xiangming Liu, Feng Liu, Rong Liu\*, **Jia Wang\***. Structure-based prediction of West Nile virus-human protein-protein interactions. *Journal of Biomolecular Structure & Dynamics*. 2019, 37(9):2310-2321
3. Muhammad Tahir ul Qamar, Amna Bari, Muhammad Muzammal Adeel, Arooma Maryam, Usman Ali Ashfaq\*, Xiaoyong Du, Iqra Muneer, Hafiz Ishfaq Ahmad, **Jia Wang\***. Peptide vaccine against chikungunya virus: immuno-informatics combined with molecular docking approach. *Journal of Translational Medicine*. 2018, 16(1):298
4. Xiaoxia Yang#, **Jia Wang#**, Jun Sun, Rong Liu\*. SNBRFinder: A sequence-based hybrid algorithm for enhanced prediction of nucleic acid-binding residues. *Plos One*. 2015, 10(7): e0133260.
5. Haibo Cui, Xiaomei Wei, Yu Huang, Bin Hu, Yaping Fang, **Jia Wang\***. Using multiple linear regression and physicochemical changes of amino acid mutations to predict antigenic variants of influenza A/H3N2 viruses. *Bio-Medical Materials and Engineering*. 2014, 24(6): 3729-3735.
6. **Jia Wang#**, Dijun Chen#, Yang Lei#, JiWei Chang, BaoHai Hao, Feng Xing, Sen Li, Qiang Xu, XiuXin Deng, LingLing Chen\*. Citrus sinensis Annotation Project (CAP): A comprehensive database for sweet orange genome. *PLoS ONE*. 2014, 9(1): e87723.
7. **Jia Wang**, Zheng Kou, Mojie Duan, Chuang Ma\*, Yanhong Zhou\*. Using amino acid factor scores to predict avian-to-human transmission of avian influenza viruses: a machine learning study. *Protein & Peptide Letters*. 2013, 20(10): 1115-1121.

8. **Jia Wang**, Chuang Ma, Zheng Kou, Yanhong Zhou, Huailan Liu\*. Predicting transmission of avian influenza A viruses from avian to human by using informative physicochemical properties. *International Journal of Data Mining and Bioinformatics*. 2013, 7(2): 166-179.