

Stanford



Sai Zhang

Postdoctoral Research Fellow, Genetics

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Tsinghua University , Computer Science and Technology (2017)
- Master of Engineering, Tsinghua University , Computer Technology (2013)
- Bachelor of Engineering, Nanjing University of Science and Technology , Computer Science and Technology (2010)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Computational Biology, Machine Learning

Publications

PUBLICATIONS

- **Gene-Environment Interaction in the Era of Precision Medicine.** *Cell*
Li, J., Li, X., Zhang, S., Snyder, M.
2019; 177 (1): 38–44
- **Decoding the Genomics of Abdominal Aortic Aneurysm.** *Cell*
Li, J., Pan, C., Zhang, S., Spin, J. M., Deng, A., Leung, L. L., Dalman, R. L., Tsao, P. S., Snyder, M.
2018; 174 (6): 1361
- **Reconstructing spatial organizations of chromosomes through manifold learning.** *Nucleic acids research*
Zhu, G., Deng, W., Hu, H., Ma, R., Zhang, S., Yang, J., Peng, J., Kaplan, T., Zeng, J.
2018
- **DeepHINT: Understanding HIV-1 integration via deep learning with attention.** *Bioinformatics (Oxford, England)*
Hu, H., Xiao, A., Zhang, S., Li, Y., Shi, X., Jiang, T., Zhang, L., Zhang, L., Zeng, J.
2018
- **A deep boosting based approach for capturing the sequence binding preferences of RNA-binding proteins from high-throughput CLIP-seq data.** *Nucleic acids research*
Li, S., Dong, F., Wu, Y., Zhang, S., Zhang, C., Liu, X., Jiang, T., Zeng, J.
2017
- **Elastic restricted Boltzmann machines for cancer data analysis** *Quantitative Biology*
Zhang, S., Liang, M., Zhou, Z., Zhang, C., Chen, N., Chen, T., Zeng, J.
2017; 5 (2): 159-172
- **Analysis of Ribosome Stalling and Translation Elongation Dynamics by Deep Learning.** *Cell systems*

Zhang, S., Hu, H., Zhou, J., He, X., Jiang, T., Zeng, J.

2017; 5 (3): 212–20.e6

- **TITER: predicting translation initiation sites by deep learning.** *Bioinformatics (Oxford, England)*

Zhang, S., Hu, H., Jiang, T., Zhang, L., Zeng, J.

2017; 33 (14): i234–i242

- **Constructing Structure Ensembles of Intrinsically Disordered Proteins from Chemical Shift Data** *JOURNAL OF COMPUTATIONAL BIOLOGY*

Gong, H., Zhang, S., Wang, J., Gong, H., Zeng, J.

2016; 23 (5): 300-310

- **A deep learning framework for modeling structural features of RNA-binding protein targets** *NUCLEIC ACIDS RESEARCH*

Zhang, S., Zhou, J., Hu, H., Gong, H., Chen, L., Cheng, C., Zeng, J.

2016; 44 (4)

- **Characterizing information spreading in online social networks**

Zhang, S., Xu, K., Chen, X., Liu, X.

arXiv:1404.5562 [cs.SI].

2014 17

- **Measurement and analysis of online social networks** *Chinese Journal of Computers*

Xu, K., Zhang, S., Chen, H., Li, H.

2014; 37 (1): 24