

Jingyu (Gavin) Li

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EDUCATION & AWARDS

Applied Biology, Chu Kochen Honors College, Zhejiang University

2018.09-2022.07

- GPA: 3.83/4
- Rank: Top 10%
- First Prize of National Mathematics Competition
- Zhejiang University First Class Scholarship
- Zhejiang University Excellence Award of Professional Scholarship

RESEARCH EXPERIENCE

Babraham Institute

Research Assistant to Professor Wolf Reik

2021.04-present

- Analysed single cell multi-omics data of mouse gastrulation
- Built gene regulatory networks and performed in silico TF perturbation

Zhejiang University School of Medicine

2020.12-2021.03

Research Intern to Professor Hongqing Liang

- Constructed a single cell transcription map of induced 8C-like cells from human embryonic stem cells
- Explored the expression and regulation of endogenous retrovirus such as MLT2A1

Life Sciences Institute of Zhejiang University

Research Intern to Professor Li Shen

2020.09-2020.11

- Developed an R package to analyse scATAC-seq for imputation and scalable dimension reduction
- Designed a new algorithm to find the gene regulation modules from scATAC-seq data

Zhejiang University School of Medicine

Research Intern to Professor Guoji Guo

2019.09-2020.08

- Analysed the scRNA-seq data to map mouse embryonic development landscape
- Applied convolutional neural networks to dissect the relation between gene sequence and lineage specificity

PUBLICATIONS

1. Argelaguet, R., Lohoff, T., Li, J. G., Nakhuda, A., Drage, D., Krueger, F., Velten, L., Clark, S. J., & Reik, W. (2022). Decoding gene regulation in the mouse embryo using single-cell multi-omics (p. 2022.06.15.496239). bioRxiv. <https://doi.org/10.1101/2022.06.15.496239>
2. Li, J., Wang, J., Zhang, P., Wang, R., Mei, Y., Sun, Z., Fei, L., Jiang, M., Ma, L., E, W., Chen, H., Wang, X., Fu, Y., Wu, H., Liu, D., Wang, X., Li, J., Guo, Q., Liao, Y., ... Guo, G. (2022). Deep learning of cross-species single-cell landscapes identifies conserved regulatory programs underlying cell types. *Nature Genetics*, 54(11), Article 11. <https://doi.org/10.1038/s41588-022-01197-7>
3. Chen, H., Liao, Y., Zhang, G., Sun, Z., Yang, L., Fang, X., Sun, H., Ma, L., Fu, Y., Li, J., Guo, Q., Han, X., & Guo, G. (2021). High-throughput Microwell-seq 2.0 profiles massively multiplexed chemical perturbation. *Cell Discovery*, 7(1), Article 1. <https://doi.org/10.1038/s41421-021-00333-7>

ADDITIONAL SKILLS & INTERESTS

Math and CS:

I took more mathematics and computer-related courses than I was required, such as advanced linear algebra, numerical analysis, stochastic process, object-oriented programming (based on JAVA) and so on.

And I learned Linux operation system and programming languages commonly used (R, Python and Matlab) while analysing sequencing data and developing bioinformatics algorithms

Drama:

I joined drama clubs and participated in several traditional plays nationwide