

# Xin Dong

Ph.D. Candidate

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## EDUCATION

Sep.2020 – Present	Ph.D. Candidate in Bioinformatics	Tongji University
Sep.2018 – Aug.2020	M.S. Candidate in Bioinformatics	Tongji University
Sep.2014 – Jun.2018	B.S. in Biotechnology	Shandong Normal University

## RESEARCH EXPERIENCE

### Graduate Student, Tongji University (2018-Present)

- Developing Computational Methods for Single-cell and Spatial Data
- Large-scale Genomic Data Mining and Integration Analysis

### Undergraduate Student, Shandong Normal University (2014-2018)

- Rapid Establishment of H7N9 Dominant Lineage by Intragenic Recombination in HA Segment
- Screening of Newcastle Disease Virus Heat-Resistant Vaccine by Homologous Recombination
- The Origin, Adaptive Evolution and Population Dynamics of Infectious Chicken Anemia Virus in China
- Diversity of fish in Nansi Lake

## Skills

- **Bioinformatics:** High-throughput sequence data analysis; Single-cell data analysis; Epigenome data analysis; Machine Learning and statistic modeling
- **Programming:** Python; R; shell; JavaScript; MySQL
- **High performance computing:** Snakemake pipeline development; Python package development; Cloud computation; Cluster computation
- **User interface development:** Django; Vue.js; Bootstrap
- **Code version control system:** git
- **Server Management:** Ubuntu; CentOS
- **Experiment skills:** Cell culture; PCR; Gel electrophoresis

## CONFERENCES

- 2023 Poster Speaking, The WLA Research Conference on Cells and Genes, 2023, Shanghai, China
- 2023 Poster Speaking, 11<sup>st</sup> National Conference on Bioinformatics and Systems Biology, 2023, Guangzhou, China
- 2021 Poster Speaking, Human Cell Atlas Asia 2021 Meeting, 2021, Online
- 2021 Poster Speaking, 10<sup>th</sup> National Conference on Bioinformatics and Systems Biology, 2021, Chengdu, China
- 2019 Attendance, 14<sup>th</sup> International Bioinformatics Workshop, 2019, Beijing, China

## PUBLICATIONS

Asterisk (\*) denotes the Co-first Authors and Hashtag (#) denotes the Corresponding Authors. Only (Co)First-author papers are shown.

- Han,Y.\*, Wang,Y.\*, **Dong,X.\***, Sun,D., Liu,Z., Yue,J., Wang,H., Li,T.#, Wang,C.# (2022) TISCH2: expanded datasets and new tools for single-cell transcriptome analyses of the tumor microenvironment. Nucleic Acids Research, 10.1093/nar/gkac959.

- **Dong,X.\***, Tang,K.\*, Xu,Y., Wei,H., Han,T., Wang,C.# (2022) Single-cell gene regulation network inference by large-scale data integration. *Nucleic Acids Research*, 10.1093/nar/gkac819.
- Zheng,R.\*, **Dong,X.\***, Wan,C., Shi,X., Zhang,X.# and Meyer,C.A.# (2020) Cistrome Data Browser and Toolkit: analyzing human and mouse genomic data using compendia of ChIP-seq and chromatin accessibility data. *Quantitative Biology*

## AWARDS AND DISTINCTIONS

- 2022 Outstanding Student Leader, Tongji University
- 2022 Social Activities Scholarship, Tongji University
- 2019 Outstanding Graduate Student Scholarship, Tongji University
- 2018 Outstanding Dissertation for Bachelor's Degree, Shandong Normal University
- 2017 Outstanding Graduates Awards of Shandong Province, Human Resources and Social Department of Shandong Province
- 2017 The First Prize of The Fifteenth Challenge Cup Competition in Shandong, Shandong Youth League
- 2017 Outstanding Student Leader in Shandong, Shandong Provincial Education Department
- 2016 The Grand Prize of Shandong College Students' Biochemistry Experiment Skills Competition, Shandong Association of Science & Technology

## LEADERSHIP AND PUBLIC SERVICE

- 2023** **Director, Chairman of Organizing Committee**  
Graduation party of School of Life Sciences and Technology, Tongji University
- 2022** **Volunteer of PCR Test for COVID-19**  
Liferiver Bio-Tech Corp., Shanghai, China
- 2020** **Census Taker**  
7<sup>th</sup> Census of China
- 2016 – 2017** **Vice-president, Chairman of Executive Committee**  
Students' Union, Shandong Normal University
- 2015 – 2016** **Minister of Literatures and Arts Department**  
Students' Union, Shandong Normal University
- 2015 – 2016** **Committee Member of Network Department**  
Students' Union, School of Life Sciences, Shandong Normal University
- 2014 – 2015** **Member of Rights and Interests Department**  
Students' Union, Shandong Normal University