

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, 11st National Conference on Bioinformatics and Systems Biology, 2023, Guangzhou, China
2021 Poster Speaking, Human Cell Atlas Asia 2021 Meeting, 2021, Online
2021 Poster Speaking, 10th National Conference on Bioinformatics and Systems Biology, 2021, Chengdu, China
2019 Attendance, 14th 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**
7th 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