

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

2021 Poster Speaking, Human Cell Atlas Asia 2021 Meeting, 2021, Online

2021 Poster Speaking, 10th National Conference on Bioinformatics and Systems Biology, 2021, Chengdu, China2019 Attendance, 14th International Bioinformatics Workshop, 2019, Beijing, China

PUBLICATIONS

Asterisk (*) denotes the Co-first Authors and Hashtag (#) denotes the Corresponding Authors. Only 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 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 National Encouragement Scholarship
- 2017 The First Prize of The Fifteenth Challenge Cup Competition in Shandong, Shandong Communist Youth League
- 2017 Advanced Individual of Extracurricular Science and Technology Innovation Activities, Shandong Normal University
- 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
- 2016 National Encouragement Scholarship
- 2016 Advanced Individual of External Publicity, Shandong Normal University
- 2016 Alumni Scholarship, School of Life Sciences of Shandong Normal University
- 2015 Outstanding leader of The Students' Union, Shandong Normal University
- 2015 National Encouragement Scholarship
- 2015 Advanced Individual of Campus Cultural Activities, Shandong Normal University
- 2014 Advanced Individual of Freshman Corps in Military Training, Shandong Normal University

LEADERSHIP AND PUBLIC SERVICE

- 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