

# 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, 10<sup>th</sup> National Conference on Bioinformatics and Systems Biology, 2021, Chengdu, China2019 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 First-author papers are shown.

- **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

- 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 Excellent Student Cadre 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 Cadres 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**  
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