

# Rongxin Zhang

Ph.D. candidate · BIOINFORMATICS

## Profile

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<b>Hometown</b>	Nantong City, Jiangsu Province, China
<b>Laboratory</b>	State Key Laboratory of Bioelectronics, School of Biological Science and Medical Engineering, Southeast University
<b>Birth</b>	1995.10.24
<b>Gender</b>	Male
<b>Working Mail</b>	rongxinzhang@outlook.com (For Global)
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## Education

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<b>Ph.D. Candidate of Engineering (Supervisor: Prof. Xiao Sun)</b>	2018-now
Department of Bioinformatics and System Biology State Key Laboratory of Bioelectronics School of Biological Science and Medical Engineering Southeast University	
<b>Bachelor of Science (Supervisor: Prof. Qianghu Wang)</b>	2014-2018
Department of Bioinformatics School of Biomedical Engineering and Informatics School of Basic Medical Sciences Nanjing Medical University	

## Skills

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Programming; R, Python, PHP *et al.*  
Software and website developing  
Working in Linux environment  
Proficiency in using common bioinformatics software or databases  
Data mining and statistical analysis  
Sequencing data analysis; RNA-seq, ChIP-seq, DNase-seq *et al.*  
Have a background in biology and medicine  
Academic paper writing  
Good communication skills

## Research Interests

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Human Epigenetics & Disease (Cancer)  
Non-canonical Nucleic Acid Secondary Structures, especially G-quadruplexes  
Bioinformatics Software & Database Development  
Machine Learning Tasks in Bioinformatics or Medical Informatics  
Sequencing Data Analysis

## Research Experience

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Designed and built two Bioinformatics databases, iCAN and Mir2Drug.  
Participated in a study to assess the risk of development of type 2 diabetes in the Chinese urban population by using machine learning approaches.  
Identified Glioblastoma Multiforme samples from scRNA sequencing data.  
Analyzed the potential role of G-quadruplexes in the SARS-CoV-2 genome, the human 3D genome, and the human transcriptome.

## Awards

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Excellent Academic Poster (The 9th Jiangsu Provincial Bioinformatics Academic Conference)		2019
Outstanding Graduates of Nanjing Medical University		2018
The Contest of LAN QIAO CUP (JAVA Programming Language Competition)	Third Prize	2017
China College Students Computer Design Competition (Software Development and Application)	Second Prize	2017
Innovation Cup of Computer Design Competition	Second Prize	2016
Triple-A Students of Nanjing Medical University		2015

## Publications

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Whole genome identification of potential G-quadruplexes and analysis of the G-quadruplex binding domain for SARS-CoV-2 ( <a href="#">PDF</a> )		2020
<b>Rongxin Zhang</b> , Ke Xiao, Yu Gu, Hongde Liu, Xiao Sun	<i>Frontiers in genetics</i>	
Enhancer lncRNAs influence chromatin interactions in different ways ( <a href="#">PDF</a> )		2019
Hou Yue, <b>Rongxin Zhang</b> , Xiao Sun	<i>Frontiers in genetics</i>	
Integrative characterization of G-Quadruplexes in the three-dimensional chromatin structure ( <a href="#">PDF</a> )		2019
Hou Yue, Fuyu Li, <b>Rongxin Zhang</b> , Sheng Li, Hongde Liu, Zhaohui S. Qin, Xiao Sun	<i>Epigenetics</i>	
Machine Learning Models in Type 2 Diabetes Risk Prediction: Results from a Cross-sectional Retrospective Study in Chinese Adults ( <a href="#">PDF</a> )		2019
Xiong Xiaolu, <b>Rongxin Zhang (Co-first author)</b> , Yan Bi, Weihong Zhou, Yun Yu, Dalong Zhu	<i>Current medical science</i>	
Institute collection and analysis of Nanobodies (iCAN): a comprehensive database and analysis platform for nanobodies ( <a href="#">PDF</a> )		2017
Zuo Jing, Jian Li, <b>Rongxin Zhang</b> et al.	<i>BMC genomics</i>	
An Integrating Approach for Genome-Wide Screening of MicroRNA Polymorphisms Mediated Drug Response Alterations ( <a href="#">PDF</a> )		2017
Wang Xian Yue, Hong Jiang, Wei Wu, <b>Rongxin Zhang</b> et al.	<i>International journal of genomics</i>	