

XU Qi

Graduate Student at Nanjing University; CFA level II Candidate

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EDUCATION

Nanjing University (NJU), Nanjing, China

Sep.2016-Jun.2019 (Expected)

- **Master Candidate of Science in Life Sciences**, Department of Biotechnology, School of Life Sciences
- Research Orientation: Transcriptional regulation of non-coding RNA

Northwest University (NWU), Xi'an, China

Sep.2012-Jun.2016

- **Bachelor of Science in Life Sciences and Biotechnology** (National "Talent Base" Undergraduate Program), Department of Biotechnology, School of Life Sciences
- GPA: 3.66/4.0, Class Ranking: 1/30

RESEARCH EXPERIENCE

Laboratory Experience

- **Project Title:** mirTrans: a resource of transcriptional regulation on microRNAs for human cell lines
- **Key Achievements:**
 - a) Text mining from the abstracts of over 1000 academic papers cooperating with lab mates for 1513 microRNAs in 54 human cell lines.
 - b) Validate the precision of prediction in our database about the transcriptional regulation relationship between transcription factors (TFs) and microRNAs.
- **Publication:**

Hua, X., Tang, R., Xu, X., Wang, Z., **Xu, Q.**, Chen, L., Wingender, E., Li, J., Zhang, C. and Wang, J., 2017. mirTrans: a resource of transcriptional regulation on microRNAs for human cell lines. *Nucleic acids research*.
- **Project Title:** primirTSS: An R package for prediction of pri-miRNA Transcription Start Site
- **Introduction:** A fast, convenient tool to identify the TSSs of miRNAs by integrating the data of H3K4me3 and Pol II as well as combining the conservation level and sequence feature, provided within both command-line and graphical interfaces, which achieves a better performance than the previous non-cell-specific methods on miRNA TSSs.
- **Publication:** <http://www.bioconductor.org/packages/devel/bioc/html/primirTSS.html>

EXTRACURRICULAR EXPERIENCE

Internship

Graduate

- **Research assistant**, R&D, ImmuneOnco Biopharmaceuticals (Shanghai) Co., Ltd (Jan.2018-Mar.2018)

Dedicated to assisting the development and commercialization of novel cancer immunotherapy products at the company, which is designed to reverse cancer cell-induced immune inhibition and to actively eradicate cancer cells.

Student Work

Undergraduate

- **President** of class (Sep.2012-May.2016)
- **Vice President** of the School of Life Sciences Student Science and Technology Association (Sep.2014-May.2015)

HONORS AND AWARDS

- Nanjing University Elite Student Scholarship (First-class) (2016-2017)
- Nanjing University Academic Scholarship (2016-2017)
- National Scholarship (2013-2014)
- Northwest University Grand Scholarship (Outstanding Student Pacesetter title) (2013-2014)
- Northwest University First-class Scholarship (Outstanding Student title) (2012-2013)

SKILLS AND CERTIFICATES

- Chartered Financial Analyst (CFA) Level II Candidate
- Hands-on experience with bioinformatics analysis on Next Generation Sequencing Data such as ChIP-seq, RNA-seq, miRNA-seq, and GRO-seq;
- Proficient with NGS tools like BWA, Bowtie2, TopHat, STAR, Cufflinks, edgeR, GATK, Picard, SAMtools;
- Familiar with UNIX/Linux environment (Ubuntu, macOS), Python (Numpy, Scipy, Pandas, Jupyter, etc.), R (Bioconductor, R-package development for bioinformatics analysis);