

# Curriculum Vitae

**Weihua Pan**

**Date of Birth:** August 31, 1989.

## Work Address

National High Performance Computing Center of China (Hefei), Room 502

School of Computer Science and Technology

University of Science and Technology of China

Hefei, Anhui 230026, P. R. China

Mobile: +86-15856386154

E-mail: [whpan@mail.ustc.edu.cn](mailto:whpan@mail.ustc.edu.cn)

Homepage: <http://home.ustc.edu.cn/~whpan>

## Education

M.S. Candidate in Computer Science (2011.9 ~ present)

University of Science and Technology of China

B.S. in Computer Science (2007.9 ~ 2011.7)

Nanjing Normal University

## Research Interests

Computational Biology (algorithms and softwares for Metagenomics sequence analysis, Next-generation Sequencing and Haplotyping), Bioinformatics (softwares for Functional Genomics), Design and Analysis of Algorithms (Multiple Longest Common Subsequence problem).

## GPA Rank

**Graduate: rank 8/90**

or **rank 14/170** (including students in another class and the ones changed to Ph.D. class)

**Undergraduate: rank 2/100**

As there's no rank for pure GPA in NNU, the undergraduate rank is based on a kind of combined score. 70% of it is about GPA and 30% is about contests in computer science. The rank is used for recommending undergraduate students to be graduate students without examination.

## TOEFL & GRE

TOEFL: 87 (Reading 28, Listening 19, Speaking 15, Writing 25)

GRE: 151 (Verbal) + 166 (Quantitative) + 3 (Analytical Writing)

## Teaching Assistant

**Design and Analysis of Algorithm** (for postgraduates in School of Software Engineering), winter quarter, 2012.

## Scholarships & Awards

### As a graduate student:

1. "Global Digital" Scholarship. October, 2013.
2. "Guanghua" Scholarship. November, 2012.

### As an undergraduate student:

1. National Encouragement scholarship. November, 2008.
2. National Mathematical Contest in Modeling, second prize. December, 2009.
3. Merit Student of Jiangsu Province. May, 2010.
4. Excellent Bachelor's Thesis of Jiangsu Province, third prize. April, 2012
5. Mathematical Contest in Modeling (MCM), successful participants. In 2010.
6. National Contest of Software Design and Development, third prize of Jiangsu zone. July, 2010.
7. Outstanding Graduates of Nanjing Normal University. June, 2011.
8. Scholarship of Nanjing Normal University, first level (6 times), second level (1 time). In 4 years.
9. Pacemaker to Merit Student of Nanjing Normal University. November, 2010.
10. Merit Student of Nanjing Normal University (2 times).
11. "Xiaotong Fei" Scholarship. November, 2010.
12. "Sifang culture" Scholarship. April, 2010.
13. Mathematical Contest in Modeling of Nanjing Normal University, first prize (in 2010), third prize (in 2009). June, 2009 and June, 2010.
14. Information Security Contest of Nanjing Normal University, third prize. March, 2010.
15. Programming Contest of Nanjing Normal University, third prize. April, 2009.
16. Excellent Student Cadre of Nanjing Normal University. December, 2009.

## Publications

### On Computational Biology and Bioinformatics

1. **W. Pan**, Y. Zhao, Y. Xu and F. Zhou. WinHAP2: an extremely fast haplotype phasing program for long genotype sequences. Submitted to *BMC Bioinformatics*.
2. X. Su\$, **W. Pan**\$, B. Song, J. Xu and K. Ning. Parallel-META 2.0: Enhanced Metagenomic Data Analysis with Functional Annotation, High Performance Computing and Advanced Visualization. Submitted to *PLOS One*.
3. **W. Pan**, B. Chen and Y. Xu. MetaObtainer: a tool for obtaining specified species from

metagenomic reads of next-generation sequencing. *The 5th Annual International Conference on Computational and Systems Biology (ICCSB'13)*, accepted.

4. **W. Pan**, B. Chen and Y. Xu. Clustering-based large-scale haplotype phasing algorithm. *Computer Engineering & Science*, accepted. (in Chinese)
5. P. Nie, **W. Pan** and Y. Xu. Metagenomic DNA Sequence binning based on Affinity Propagation. *Computer Systems & Applications*, accepted. (in Chinese)
6. T. Li, Y. Xu, P. Nie and **W. Pan**. The Design and Implementation of A Cross-platform Parallel Programming Framework. *Computer Engineering*, accepted. (in Chinese)
7. P. Nie, Y. Xu, W. Cheng, and **W. Pan**. MetaBinning: Hybrid metagenomic fragments binning using l-mers repeats and composition. In *the 6th International Conference on Bioinformatics and Biomedical Engineering (ICBBE2012)*, **2**: 375-378, June 2012.

#### **Earlier publications when I was a third-year undergraduate student**

8. **W. Pan**, C. Wang, C. Deng, *et al.* Greedy Algorithm of Oil Carriage Dispatch. *Computer and Information Technology*, 2010, **18**(4): 35-37. (in Chinese)
9. C. Wang, **W. Pan**, S. Liu, *et al.* A Scheme on Ultrasonic Level Meter Design. *Journal of Nanjing Normal University (Engineering and Technology Edition)*, 2010, **10**(3): 44-46. (in Chinese)