

Ting He

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Education

Bachelor of Science in Bioinformatics

Dalian University of Technology(project 211 and 985)

GPA: 3.5/4.0 (top 6) Major GPA:3.8/4.0 (top 1)

Main Courses:

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|----------------------------------|---------------------|---------------------------------|----------------|
| • Data Structures and Algorithms | • Systems Biology | • Data Mining in Bioinformatics | • Proteomics |
| • Database Principles | • Genomics | • Perl Programming | • Cell Biology |
| • Bio Java | • Molecular biology | • Computational Biology | • Biochemistry |
| | • Biostatistics | | |

Publications

Zhenyao Zhang, **Ting He**, *Comparative proteomics analysis of human osteosarcoma by 2D DIGE with MALDI-TOF/TOF MS*, The First Youth Medical Forum of Chinese Society of Biochemistry and Molecular Biology, March 2016

Research experience

Visiting Student, University of Calgary, Canada

September-December 2016

Frequent Itemset Mining, in collaboration with Dr. Quan Long

- Discretized continuous data based on statistic model
- Used machine learning methods to advance the investigation of phenotype-genotype relationships in HDD

Visting Student, University of Calgary, Canada

August-September 2016

Cancer Genome data analysis, in collaboration with Dr. Quan Long and Lauren Mak

- Used softwares to call SNPs in next-generation sequencing data
- Compared quality and accuracy of SNP calling in different pipelines

Participator, Dalian University of Technology, China

April-September 2015

Research of synthesis of common drugs

- In charge of improving synthesis route for ciprofloxacin

Project Experience

Team lead, Designer and Programmer, Dalian University of Technology, China

July-September 2015

Health Data Analysis app development

- Led a team of 6 students to develop an app for patients to enter health data, and app would make general recommendations to improve health
- Designed an attractive user interface and functionality developments

Executor, Dalian University of Technology, China

July-August 2015

Drug molecular design

- Investigated interaction of ligands and protein using molecular simulation method
- Created and profiled pharmacophore and then used virtual screening

Work Experience

August 2016 – Present, Bioinformatics Skills internet forum

Manager, Writer, Editor, website:<http://www.biotrainee.com/>

- Worked with various top schools' masters, phds and bioinformatics hobbyists
- Educating biologists in bioinformatics skills and pipelines

Honors and awards

- First-class, China National Scholarship (0.2% among all university students in China), Ministry of Education of the P. R.C, October 2016
- First prize(Top 1/50)/second prize(Top 10/50), Scholarships for Excellent Performance, Dalian University of Technology, 2015 and 2016
- First Prize(Top10/1000), Scholarships for Technological Innovation, Dalian University of Technology, 2015
- First prize, The 12th Climbing Competition(for technological achievement), Dalian University of Technology, 2016
- Third prize, Mobile Application Development, Liaoning Provincial Education Authourity, 2015
- Second prize, Mathematical modeling competition of China Certification cup, Global Mathematical Modeling Certificate Authority, 2016
- The honor of All-around Good Student(for academic achievement and community involvement), Dalian University of Technology, 2015 and 2016

Skills

Programming languages

- Java
- Perl
- C++
- MySQL
- Matlab

Software experience

- BWA
- Samtool
- LibDock
- AMBER software tools
- PBS/TQ RUE

Laboratory experience

- Cell culture
- Inverse PCR
- Agar-gel electrophoresis
- Heat shock method