

Yuping Lu

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GITHUB: github.com/YupingLu

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EDUCATION

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| PRESENT
AUG. 2013 | Ph.D. student in COMPUTER SCIENCE
the University of Tennessee , Knoxville, TN
Research Interests: Graph algorithms and tools for biological data
Advisor: Dr. Michael LANGSTON GPA: 3.90 |
| MAY 2011
SEPT. 2007 | BEng in COMPUTER SCIENCE
Nanjing Agricultural University , Nanjing, Jiangsu Province, China
Advisor: Dr. Huanliang XU GPA: 3.64 |

WORK EXPERIENCE

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| SUMMER
2017 | Intern at THE SCIENTIFIC DATA GROUP
<i>Oak Ridge National Laboratory</i> <ul style="list-style-type: none">• Scaling a PheWAS logistic regression R code on HPC clusters with pbdR tools using singularity container. |
| PRESENT
JULY 2014 | Graduate Research Assistant at OFFICE OF INFORMATION TECHNOLOGY
<i>the University of Tennessee, Knoxville</i> <ul style="list-style-type: none">• Administration and implementation of Google Search Appliance.• Configuration and administration of campus web servers.• Helped teach occasional workshops on various topics, like search technology, SQLite. |
| SUMMER
2016 | Intern at THE SCIENTIFIC DATA GROUP
<i>Oak Ridge National Laboratory</i> <ul style="list-style-type: none">• Implemented an R package pbdADIOS to connect R with ADIOS parallel middleware for IO. Most functions in this package are implemented with C++. |
| JUNE 2014
AUG. 2013 | Graduate Research Assistant at DR. LANGSTON'S LAB
<i>the University of Tennessee, Knoxville</i> <ul style="list-style-type: none">• Upgraded GrAPPA which is a web-based interface built on the Galaxy framework for the graph-based tools.• It includes all the necessary tools to do a complete microarray analysis, from uploading RAW microarray data to postprocessing visualization tools. |
| MAY 2012
JULY 2011 | Implementation Engineer at ZTESOFT R&D CENTER
<i>Nanjing, Jiangsu Province, China</i>
Worked on two main projects: <ul style="list-style-type: none">• Lima, Peru Perusat Wimax CvBS Operations & Maintenance Project.• Santiago, Chile VTR OCS Project. |

PROGRAMMING LANGUAGES

C/C++, R, PHP, HTML+CSS+JS

PUBLICATIONS

Digital gene expression profiling of the Phytophthora sojae transcriptome.

Ye, W., Wang, X., Tao, K., **Lu, Y.**, Dai, T., Dong, S., Dou, D., Gijzen, M. and Wang, Y.
Molecular Plant-Microbe Interactions, 24(12):1530–1539, December 2011.

Robustness of Clustering Algorithms.

Yuping Lu, Charles A. Phillips, Michael A. Langston
BMC Bioinformatics – To be submitted

biclique: Maximal Biclique Enumeration in Bipartite Graphs.

Yuping Lu, Charles A. Phillips, Michael A. Langston
BMC Bioinformatics – To be submitted

HONORS AND AWARDS

2013 Department excellence award, the University of Tennessee, Knoxville
2007-2011 Outstanding graduate and several scholarships, Nanjing Agricultural University