# Yuping Lu


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## EDUCATION

**Present – Aug. 2013** | Ph.D. student in Computer Science
**the University of Tennessee**, Knoxville, TN
Research Interests: Combinatorial Algorithms, Graph Metrics
Advisor: Dr. Michael Langston | GPA: 3.91 | Google Scholar Citations: 62

**May 2011 – Sept. 2007** | BEng in Computer Science
**Nanjing Agricultural University**, Nanjing, Jiangsu Province, China
Advisor: Dr. Huanliang Xu | GPA: 3.64

## WORK EXPERIENCE

**Present – Oct. 2017** | Graduate Research Assistant at ARM Data Center
*Oak Ridge National Laboratory*
- Anomaly detection and data processing.

**Oct. 2017 – July 2014** | Graduate Research Assistant at Office of Information Technology
*the University of Tennessee, Knoxville*
- 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 2017 – 2016** | Intern at the Scientific Data Group
*Oak Ridge National Laboratory*
- Scaling a PheWAS logistic regression R code on HPC clusters with pbdR tools using singularity container.
- 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
*the University of Tennessee, Knoxville*
- 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
*Nanjing, Jiangsu Province, China*
Worked on two main projects:
- Lima, Peru perusat wimax CvBS pperations & maintenance project.
- Santiago, Chile VTR OCS project.

## PROGRAMMING LANGUAGES

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

## Pulications

A robustness metric for biological data clustering algorithms.
**Lu, Y.**, Phillips, CA., Langston MA.
*The 14th International Symposium on Bioinformatics Research and Applications (ISBRA 2018) — Accepted.*
**Acceptance rate: 30%**
To appear in BMC Bioinformatics **Impact factor: 2.448**.

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.*
**Impact factor: 4.332**

Paraclique: a clique finding algorithm for weighted graph.
**Lu, Y.**, Phillips, CA., Langston MA.
*The 9th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB 2018) — To be submitted.*

Biclique: maximal biclique enumeration in bipartite graphs.
**Lu, Y.**, Phillips, CA., Langston MA.
*BMC Research Notes — To be submitted.*

Proceedings of the 15th annual UT-KBRIN bioinformatics summit 2016.
**Lu, Y.**, Phillips, CA., Langston MA.
*BMC Bioinformatics 17 (10), 297, August 2016.*

## Honors and Awards

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