Curriculum Vitae

Basic Information

Name: Kuang-chen Lu

E-mail：lkc1024@openmailbox.org

Homepage：https://kelvinlu1024.github.io/

GitHub：https://github.com/KelvinLu1024

GPA：3.31/4.3

Curriculums

- Mathematics
  - Calculus
  - Linear Algebra
  - Probability Theory and Statistics
- Computer Science
  - Computer Network
  - Algorithms
  - Data Structures and Algorithms
  - Design of Computer Programs
- Interdiscipline
  - Bioinformatics
  - Biostatistics

Publications and Contribution

- Chen Sun, Zhiqiang Hu, Tianqing Zheng, **Kuangchen Lu**, Yue Zhao, Wensheng Wang, Jianxin Shi, Chunchao Wang, Jinyuan Lu, Dabing Zhang, Zhikang Li, Chaochun Wei; RPAN: rice pan-genome browser for ～3000 rice genomes. *Nucleic Acids Res* 2017; 45 (2): 597-605. doi: 10.1093/nar/gkw958
  - I am one of the principle developers of the pan-genome browser. I developed a phylogenetic tree viewer, a central component of the browser. Also, I helped the integration of the tree viewer and the rest of the browser.

- Zhiqiang Hu, Chen Sun, **Kuang-chen Lu**, Xixia Chu, Yue Zhao, Jinyuan Lu, Jianxin Shi, Chaochun Wei; [EUPAN enables pan-genome studies of a large number of eukaryotic genomes.](#) Bioinformatics 2017 btx170. doi: 10.1093/bioinformatics/btx170
  - EUPAN used to work with LSF workload management platform on super computers. I ported it to SLURM, another workload management platform.

Personal Projects

WebPhyloTree

A JavaScript library that helps visualizing tree in (X)HTMLs and SVGs.

Homepage: http://kelvinlu1024.github.io/WebPhyloTree/

Simple Scheme Interpreter

A scheme interpreter implemented with R5RS Scheme. Its features include first-class continuation, as continuation-passing-style transformation is performed during execution.

Homepage: https://github.com/KelvinLu1024/Simple-Scheme-Interpreter

Programming Tutorial Chinese

A basic programming tutorial in Chinese. I wrote it for my girl friend who once wanted to learn programming.

Homepage: https://github.com/KelvinLu1024/Programming-Tutorial-Chinese