

Kuangchen Lu

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EDUCATION

Shanghai Jiao Tong University, Shanghai, China

Sep. 2014 – Now

BSc in Biotechnology

Major GPA: 3.3/4.0

PUBLICATIONS

- [1] 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
- [2] Zhiqiang Hu, Chen Sun, **Kuang-chun 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

RESEARCH EXPERIENCE

Pan-genome visualization on Web

Mar. 2015 – June 2016

Department of Bioinformatics and Biostatistics, SJTU

Supervised by Prof. Chaochun Wei

- Develop a JavaScript library to visualize phylogenetic tree on webpages.
- Develop a pan-genome browser on top the a genome browser and the tree visualization library mentioned above.

PERSONAL PROJECTS

Oolong (a Scheme-like Programming Language) to x86

Homepage: <https://github.com/oolong-lang/oolong-to-x86>

A compiler which compiles Oolong to x86 assembly. Oolong is, a programming language designed by myself, is basically a superset of R⁵RS Scheme.

A Simple Scheme Interpreter

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

A scheme interpreter supporting a subset of R⁵RS, including call-with-current-continuation. The interpreter itself is written in R⁵RS Scheme.

A Brief Programming Tutorial (in Chinese)

Read here: <https://github.com/KelvinLu1024/Programming-Tutorial-Chinese/blob/master/tutorial.ipynb>

I wrote this tutorial for my girlfriend to help her understand the basic concepts in computer programming. I hope this material could also help others.