

# Kuangchen Lu

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<https://kelvinlu1024.github.io/>

## EDUCATION

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Shanghai Jiao Tong University, Shanghai, China

Sep. 2014 – Mar. 2018 (expected)

M.S. in Biotechnology

Major GPA: 3.3/4.0

## PUBLICATIONS

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- [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  $\sim 3000$  rice genomes. *Nucleic Acids Res* 2017; 45 (2): 597-605. doi: 10.1093/nar/gkw958
- [2] Zhiqiang Hu, Chen Sun, **Kuang-chén 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

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### 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

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### *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 R<sup>5</sup>RS Scheme.

### *A Simple Scheme Interpreter*

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

A scheme interpreter supporting a subset of R<sup>5</sup>RS, including call-with-current-continuation. This project is my first attempt to implement first-class continuation.

### *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.