

Xinran Li

<http://xinranli.github.io/>

xinranli@andrew.cmu.edu
(412)932-6740

2230 Shady Avenue, Apt #2
Pittsburgh, PA 15217

EDUCATION

- **Carnegie Mellon University (CMU)** , Pittsburgh, PA

Master of Science in Computational Biology

May 2016 (expected)

- **Sun Yat-sen University (SYSU)** , Guangzhou, China

Bachelor of Science in Biological Science, overall GPA: 3.6/4.0

June 2014

SELECTED COURSEWORK

Machine Learning, Bioimage informatics, Web application development, Programming for Scientists, Introduction to Network Science, higher mathematics, Zoology, Botany, Plant Physiology, Ecology, Microbiology, Physiology, Biostatistics, Bioinformatics, Applied Cell and Molecular Biology, Genetics, Oncology.

SKILLS

- **Computer Languages:** Go, Python, Perl, R, PASCAL, LaTeX, HTML5, CSS3
- **Applications:** Microsoft Office, Adobe Photoshop, Adobe Lightroom, Adobe Dreamweaver, Adobe Illustrator, Adobe Flash, Adobe Fireworks, Painter, SketchBookPro, PaintTool Sai, CodonCodeAligner.
- **Operating Systems:** MacOS, Windows, Linux
- **Spoken Languages:** Native in Mandarin Chinese and Cantonese; Fluent English
- **Biology:** Cell transformation, Cell and plant tissue culture, Bacterial culture, ELISA, Electrophoresis, Western blot, DNA extraction, DNA ligation, Micro injection, IHC, Gene cloning, Polymerase Chain Reaction, Quantative-PCR, BLAST.

PROJECTS

- **Analyzed base-pair variation pattern in CRISPR-edited DNA sequence** SYSU, 2014
 - Analyzed the alignment results of sequences edited by type II CRISPR/Cas9 system from 120 samples from *EMX1* and *B2M* of 293T cell line and *CD274* and *B2M* of H441 cell line using CodonCodeAligner.
 - Wrote a Perl program to calculate the frequency of insertion/deletion and frameshift/inframe mutation based on the analysis above
- **Designed User Experience and interface for Software CAST-Designer** (Award-winning) SYSU, 2013
 - Computer Aided Synbio Tool - An Integrated Tool for Synthetic Biology for team SYSU-Software in 2013 iGEM competition. (More details available here : <http://2013.igem.org/Team:SYSU-Software>)

HONORS

- Merit Fellowship (Tuition Scholarship) from Department of Biological Sciences, CMU (2014~2015 Academic year)
- Best software project and Gold Award in 2013 iGEM (International Genetic Engineering Machine) world competition: SYSU-Software team member (November 2013)
- Third Prize for Challenge Cup of school of life sciences, SYSU - Extracurricular Academic Research Project Competition for undergraduate students: project manager (2012)
- Third Prize for Stem Cell Donation Propaganda Poster Competition in Sun Yat-sen College of Medical Science (2012)

WORK EXPERIENCES

Graphic Designer for Grains Innovation Company

Guangzhou, China, summer 2013

- Designed membership cards, advertisements, brochures and website interfaces.

EXTRACURRICULAR ACTIVITIES

Member of Digital and Art Design Department of Student Union in School of Life Sciences

SYSU, 2011~2012