

Xinran Li

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

EDUCATION

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

Master of Science in Computational Biology, overall GPA: 3.64/4.0

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, Physiology, Biostatistics, Bioinformatics, Cell and Molecular Biology, Genetics, Oncology

SKILLS

- **Computer Languages:** Go, Python, Perl, R, PASCAL, LaTeX, HTML5, CSS3, Javascript, Matlab
- **Applications:** Microsoft Office, Adobe Photoshop, Adobe Lightroom, Adobe Dreamweaver, Adobe Illustrator, Adobe Flash, Adobe Fireworks, Painter, SketchBookPro, PaintTool Sai, CodonCodeAligner, Autodesk MAYA
- **Operating Systems:** MacOS, Windows, Linux
- **Spoken Languages:** Native in Mandarin Chinese and Cantonese; Fundamental Japanese; 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

- **Created interaction network between sncRNA and RNA-binding Proteins** CMU, 2014
- Used R to visualize the interaction network of small non-coding RNA and RNA-binding Proteins interaction based on the data extracted from starBase.
- **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
- Used Perl 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