Xinran Li

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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

Programming for Scientists, Introduction to Network Science, Microbiology, Physiology, Bioinformatics, Applied Cell and Molecular Biology, Genetics, Oncology.

SKILLS

• **Computer Languages:** Go, Perl, R, PASCAL, LaTeX, HTML5, CSS
• **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 alignement 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 frenquency of insertion/deletion and frameshift/inframe mutation based on the analysis above

• **Designed User Experience and interface for Software CAST-Designe**r (Award-winning)   SYSU, 2013

Computer Aided Synbio Tool - An Integrated Tool for Synthetic Biology for team SYSU-Software in 2013 iGEM competition. (More details avaliable 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   Guanzhou,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

VOLUNTEERS

• Laboratory Assistant at Undergraduate Experiment Teaching Center   SYSU, 2013