

# Weilin Li

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## EDUCATION

- **AUG 2017 – NOW** | **Bachelor of Science** | **Department of Biological Sciences, Carnegie Mellon University in Qatar**
  - Dean's List 2017 Fall
  - Dean's List 2018 Spring
  - Dean's List 2018 Fall
  - Dean's List 2019 Spring

## RESEARCH EXPERIENCE

- **AUG – DEC 2017** | **Student** | **Phage Genomics Research Lab** | **Carnegie Mellon University in Qatar**
  - Identification and characterization of *Arthrobacter sp.* infecting *Bacillus* bacteriophage from soil sample by under the mentorship of Dr. Annette Vincent.
  - Use of next-generation sequencing to identify the genomics composition of bacteriophage from environmental samples.
- **MAY – AUG 2018** | **Researcher** | **Summer Research Institute** | **Carnegie Mellon University, Pittsburgh.**
  - Work on an independent research project on cancer-related Glutathione S-Transferases under the supervision of Dr. Gordon Rule and Dr. Natalie McGuier
  - Investigate the effect of human GST P1-1 inhibitors on protein dynamics and function, measured with NMR methods.
  - Responsibilities include design and execution of a new experiment, data analysis, and troubleshooting.
- **SEP – DEC 2018** | **Student** | **Chemistry Lab** | **Carnegie Mellon University in Qatar**
  - Use various techniques and methods in quantitative analysis such as titrations, chromatography, spectroscopy and gravimetric analysis to measure iron concentration in various unknown under the supervision of Dr. Ravichandra Bachu
  - Work on an independent research project on measuring the iron content in various species of spinach and investigate its nutritious implication for daily diet.
- **June-August 2019** | **Researcher** | **Functional Genomics Research Group** | **Central European Institute of Technology** |
  - Work on an independent research project on exploring the function of RASAL3 knockout in a T-lymphocytic cell line using the gene editing CRISPR/Cas9 technology
  - Elucidate the effect of RASAL3 gene deletion upon T-cell signaling and activation of MAP kinases.
  - Determine the consequences upon cell adhesion and cell migration

## ACTIVITIES

- **JUNE – AUG 2016 | Foreign Aid Worker & Community Health Advocate | Udon Thani, Thailand**
  - Conduct health related services, including testing blood pressure and blood glucose for the locals from nearby village
  - Raise the community's awareness of diabetes and high blood pressure and the important role that diet plays in our health
- **AUG – SEP 2016 | Student Intern & Teaching Assistant | Harvard College AUSCR Summit for Young Leaders in China| Beijing, China**
  - Teaching Assistant for The Psychological Implications of Mindfulness and Meditation on Happiness
  - Organize welcome events and ice-breaking games for new students
  - Organize of open days for public demonstration of the psychological implications of mindfulness and meditation on happiness
- **MAR 2018 | Foreign Aid Worker & English Teacher | Kadugannawa elementary school | Kandy, Sri Lanka**
  - Teach English to students, ranging from grade one to grade ten at Kadugannawa elementary school
  - Participate in the course design, which makes learning process more interactive based on students' age and abilities to comprehend English
- **JAN 2019 - NOW | Outreach Assistant for Biological Sciences Department | Carnegie Mellon University in Qatar | Qatar**
  - Pioneer the social media presence of the Biological Sciences program of CMU-Q via popular platforms such as Twitter, Instagram and maintain them in a responsible manner.
  - Participate as volunteer and mentor at all the outreach events to help high school students be familiar with basic lab techniques and problem-solving skills.
- **MAY - JUNE 2019 | Foreign Aid Worker & Programming Instructor | SOS Hermann Gmeiner Primary School Kigali & IFAK Secondary School | Kigali, Rwanda**
  - Teach basic programming skills in TurtleArt and Scratch to elementary school teacher and help to integrate programming into syllabus for science courses in SOS Children's Village Kigali
  - Teach Java language to programming teachers in IFAK Secondary School

## TECHNICAL SKILLS

- Biotechnology: Next Generation Sequencing (NGS) & Sanger Sequencing, RNAseq.
- Biochemistry and molecular biology: Protein Purification, DNA and RNA Synthesis, PCR, Gibson Assembly, Column Chromatography, Western Blotting, Flow Cytometry
- Programming: UNIX operating system, Python

## **NON-TECHNICAL SKILLS**

- Graphic Designer
- Community Health Advocate
- Certificated in Wilderness First Aid
- Children Illustrator
- Mandarin and English Speaker
- Pianist