

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