

## Professional Experience

### Developer of an R function in supporting sequencing pipeline testing

University of California, Riverside (UCR), College of Natural & Agricultural Sciences *Jan 2020 - Jun 2020*

- Worked in Professor Thomas Girke Lab to generalize a workflow in downsampling Next-Generation Sequencing data to facilitate pipeline testing.

### Research Assistant in studying Breast glyco-oncology

National University of Singapore(NUS), Department of Anatomy *Oct 2016 - Feb 2019*

- Automated a statistical routine on immunohistochemistry data analysis using R.
- Trained undergraduate students during Honours Year Project.
- Managed stock check and procurement of reagents and consumables from vendors.

## Education

### PhD in Genetics, Genomics & Bioinformatics

University of California, Riverside (UCR), College of Natural & Agricultural Sciences *Sep 2019 - Present*

- Research area: discovering novel DNA epigenetics using mass spectrometry.
- Thesis advisor: Professor Yinsheng Wang.
- Current Grade Point Average (GPA): 3.56/4. Course taken:
  - Advanced Genetic Analysis In Model Organisms
  - Advances in Genomics
  - Introduction To Data Science

### Master in Science by Research

National University of Singapore (NUS), Yong Loo Lin School of Medicine *Aug 2017 - Sep 2019*

- Research area: expression and functional analysis of MGATA in breast cancer.
- Thesis advisor: Associate Professor Yip Wai Cheong, George.
- Cumulative Average Point (CAP): 4.5/5. Course taken:
  - Biological data analysis with R
  - Advanced Statistical Learning

### Bachelor in Science (Honours), Major in Life Science

National University of Singapore (NUS), Faculty of Science *Aug 2012 - Jun 2016*

- Cumulative Average Point (CAP): 3.72/5.
- Completed Honours Project with Professor Greg Tucker-Kellogg to construct CRISPR-dCas9 in controlling epigenetic.
- Completed UROP with Associate Professor Allen Yeoh Eng Juh to assess anti-cancer potential of vincristine on leukemia.
- Completed University Scholars Programme.
- Participated a half-year exchange study in Karolinska Institute, Sweden.
- Participated "Elsinore Summer School" jointly hosted by Copenhagen University and NUS.

### Singapore-Cambridge GCE Ordinary & Advanced Level

Xinmin Secondary School and Anderson Junior College *Jan 2008 - Dec 2011*

- A recipient of Senior Middle School 1 (SM1) Scholarship from Ministry of Education, Singapore.
- GCE O-Level L1R5: 4 points and GCE A-Level Ranking Points: 83.75/90.

## Skills

### Programming languages

R (tidyverse, survival) and Bioconductor (systemPipeR, affy), Bash (experienced with linux enviroment).

### Natural languages

English (full professional proficiency), Mandarin Chinese (native language).

### Sports

Triathlon, Scuba diving and Judo.