
EXPERIENCE

CAR-T Cell Gene Database Creation

Jun 2020 – July 2020

<uni>

- One of four students representing Australia at the <program> program.
- Spent over 200 hours studying CAR-T cell therapy, published a literature review titled “A comprehensive review of CAR-T cells” and presented the findings.
- Created an interactive website that displays the gene database containing over 100 genes, evaluating the effectiveness of targeting specific cell receptors for different blood cancers.

Private Tutor and Video Creator

Jan 2020 - present

Self employed

- Self-employed private tutor with over 200 hours of teaching experience.
- Designed over 50 animated educational videos corresponding to the syllabus to comprehensively teach and explain Chemistry and Biology to students in years 11 and 12.

Army Cadet Corps

Feb 2015 – Dec 2019

Cadet Under Officer

- Trained in conflict resolution, leadership, teamwork, taking initiative, and emergency first aid.
- Trained with the ADF for the Adventure Training Award (2018), the highest award for Cadets in Australia.
- Promoted to the highest cadet rank of CUO (2019), and appointed to the position of Platoon Commander.
- Mentored, supervised and led 29 cadets throughout the year. Commanded field exercises with upwards of 100 cadets at a time.
- Awarded the Morgan Shield Cup for best Junior Platoon of the Year (2019).

Duke of Edinburgh Gold Award

May 2016 - Jan 2020

- Internationally recognised award for completing a combined total of 300 hours of volunteering, physical activity and musical practice.
- Raised \$3000 to fund building supplies, travelled to Arnhem Land in the Northern Territory to build infrastructure for the Indigenous communities of Mamadawerre and Murdujul.

EDUCATION

<University>

Feb 2020 - Nov 2024

WAM: 91.7, GPA: 4.0

- B.E. in Biomedical Engineering (Hons), B.S. in Computer Science with a minor in Biochemistry and Molecular Biology.
- Sydney Scholars Award, Dalryell Scholar.

<School>

Jan 2012 – Dec 2019

- Graduated on the All-round Achiever merit list with an ATAR of 99.60 (2019).
- Certificate of Performance with Honours (2018). 12 years of extensive practise on the Alto Saxophone.

PROJECTS

- **Analysed mitochondrial DNA sequence and mapped the human haplogroups (2020).** Analysed an mtDNA sequence and created a phylogenetic tree using BLAST Sequencing and MEGAX.
- **Molecular Biology Club (2017-18).** Used restriction digests, PCR, gel electrophoresis to genetically engineer bacterial plasmids from *E. coli* to synthesise insulin.

ADDITIONAL INFORMATION

Technologies and Languages: Python, Java, R, MATLAB, English, French.