

ANDREA LI

Cell: 626-628-8237 | Email: ali3@caltech.edu

Graduating June 2028

EDUCATION

Class of 2028 **California Institute of Technology (Caltech)**, Computer Science major, Biology minor

Class of 2024 **Sir Winston Churchill High School (SWC)**, *Grade 10, 11, 12 Partial IB student*

PUBLICATIONS

Oct. 3, 2024 *Co-author* **Validation of large language models for detecting pathologic complete response in breast cancer using population-based pathology reports**

- <https://bmcmmedinformdecismak.biomedcentral.com/articles/10.1186/s12911-024-02677-y>

COMMUNITY ENRICHMENT IMPACT

Nov. 2021 – Current *Founder*, **Kajjima Youth Volleyball Association**

- Founded a non-profit organization to introduce volleyball and sport activities for the betterment of underprivileged children's physical and mental well being

Oct. 2024 – Current CS 1a, Chem 1a, Math 1a, *Ombudsman*, **Caltech**

Sep. 2024 – Current Hacktech, *University Outreach Committee*, **Caltech**

Sep. 2022 – Aug. 2024 Citizens of Churchill Club, *Lead Student Ambassador*, **Sir Winston Churchill High School**

- Initiated biweekly meetings and lead open houses to welcome incoming students

PROFESSIONAL EXPERIENCES

Aug. 5 – Sep. 13, 2024 *Student researcher*, **Caltech Shapiro Lab**

- Selected researcher investigating ultrasound-controlled genetic circuit for non-invasive blood vessel patterning

Jul. 7 – Aug. 18, 2023 *Student researcher*, **University of Calgary**

- Developed a rule-based algorithm for masking personally identifiable information (PII) from 600+ pathology reports
- Featured as 1 of 3 researchers in University of Calgary's news report

Mar. 27 – 31, 2023 *Student researcher*, **STEM Fellowship at University of Calgary**

- Chosen as a researcher for Dr. Hallgrimsson's Lab after a competitive interview process
- Carefully conducted cyclopamine dosing on zebra fish embryos to explore effects of genetic mutation

Jul. – Aug. 2022 *Student researcher*, **University of Calgary partnered with CHI (Centre for Health Informatics)**

- Collaborated with graduate students and professors on analyzing heart surgery data
- Developed standard skills in SAS (coding software), excel (pivot tables), and Tableau (visual element)