# Kira Li

## Biomedical Engineering Student

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## TECHNICAL SKILLS

**Computer**

- Microsoft Office
- Java, C, Python, MATLAB, GitHub

**Laboratory**

- Micro-pipetting
- Titrations

**Communication**

- Lab reports, essays
- Public speaking, presentations

## TECHNICAL PROJECTS

**Fracture Fixation Project, UBC** September 2020 - November 2020

- Developed a solution for a case study of a distal femur fracture in an elderly woman
- Researched the clinical background, generated design needs, requirements and design concepts, and presented the intramedullary nail as the best solution in a written report and product brochure

**Graph Implementation Project, UBC** October 2020 - December 2020

- In Java, implemented an adjacency matrix graph representation and various graph traversal algorithms (finding the common upstream and downstream vertices), and applied these methods to analyze a social network dataset
- Extended virtual world with new subtypes, developed tests with over 90% branch coverage

More Projects: see my website at https://kira-li.netlify.app/

## ENGINEERING STUDENT TEAMS

***Bionics Engineering Analysis and Research (BEAR),*** *UBC*

*Software Sub-team Member* September 2020- present

- Wrote a peak detector class to analyze EMG data from a functional bionic hand
- Working on real-time EMG data visualization and a moving average model
- Our team (http://bearubc.com/) is designing a bionic hand for the global bionics competition Cybathalon (https://cybathlon.ethz.ch/en)

## WORK EXPERIENCE

***UBC Centre for Accessibility,*** *Vancouver, BC- Note-taker* February 2020- April 2020

- Took and sent notes to a student at UBC's Centre for Accessibility for a physics course

## VOLUNTEER EXPERIENCE

***UBC Engineering,*** *Vancouver, BC- Student E-Mentor* February 2020- present

- Contacted prospective students by email, answered questions and provided resources about UBC engineering and my student experiences

***Canadian Red Cross,*** *Langley, BC- HELP Client Services Volunteer* July 2020- August 2020

- Supported in-person and telephone inquiries from the public to provide loans and accept returns of health equipment
- Performed administrative duties and donation processing

## EDUCATION

### University of British Columbia, Vancouver, BC

*Bachelor of Applied Science - Biomedical Engineering*

Expected Graduation: May 2024

**CGPA: 84.1%,** Coursework

## AWARDS

Dean's Honour List 2020

Ladies' Auxiliary Bursary 2019

- Recognizing scholastic achievement and supporting the community