

Man Yui Lee (Coco)

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SKILLS & CERTIFICATES

- Highly skilled at Excel, SQL, Tableau, Python, MATLAB. Advanced at Power BI, Ansys™ Fluent.
- Certifications: Data Analytics Bootcamp by Alexander Freberg, Google Advanced Data Analyst Certification (Expected Sep 2023)

EDUCATION

- Imperial College London - Biomedical Engineering MSc** **United Kingdom, Expected Sep 2023**
- Graduation with *Distinction (Expected)*
 - Quantitative Modules: Statistics & Data Analysis, Regression and Correlation Analysis, Probability theory, Biomechanics
 - Dissertation: Data analysis with >300 files for fluid dynamics on a self-built high throughput microfluidic drug screening platform.
- University of Sheffield – Bioengineering BEng** **United Kingdom, Sep 2019 – Jun 2022**
- Graduated with *1st Class Honours*
 - Quantitative Modules: Engineering Mathematics I & II, Engineering Finance and Law, Computational Engineering (Python)
 - Dissertation: Conducted image and data analysis with ImageJ and computational modelling, replicating blinking motion on cornea.

DATA ANALYTICS & PROGRAMMING PROJECTS

Portfolio website: <https://cocolee1110.github.io/>

- Crypto API pull automation with Python** **Bootcamp Project 2023**
- Developed an automated data collection tool using CoinMarketCap's API to retrieve data on the top 15 cryptocurrencies every minute for 15 minutes. Performed data cleaning and plotted the average percent change and trend graph of each currency.
- COVID-19 Data Exploration with SQL server** **Bootcamp Project 2023**
- Performed data cleaning and exploration with SQL server joining 2 data files with ~300k rows, for evaluation of global COVID-19 death counts and infection trends and creation of a view for storing data to generate visualizations.
- Personal financial trend exploration and visualisation with Excel and Tableau** **Personal Project 2023**
- Analyzed personal financial data from September 2020 to March 2023 using Microsoft Excel for data cleaning and Tableau for visualization of monthly spendings, highlighting financial trends living in Sheffield and London through bar and pie charts.
- Gait cycle data analysis with MATLAB** **Academical Project 2022**
- Processed motion capture data for Gait cycle analysis using MATLAB, implementing linear interpolation, cubic spline filling, and redundant marker filling techniques to fill in missing data points, and computed transformation matrices for 148 frames.

WORK EXPERIENCE

- Chinese University of Hong Kong - Summer Research Attachment** **Hong Kong, Jun 2021 – Aug 2021**
- Conducted image and data analysis on deformability of red blood cells (~1000 cells/sec) in a high-throughput fluidic platform.
 - Collaborated with a research group of 17 and delivered weekly presentations to communicate up-to-date research progress.
 - Honored Best Presentation Award for effectively communicating complex findings to 80+ interdisciplinary engineering participants.
- China Development Bank Hong Kong Branch - Filing and Secretarial Clerk** **Hong Kong, Jul 2019 – Aug 2019**
- Accurately processed 50+ confidential documents daily, collaborating in a team of 5 while ensuring timely completion of tasks.
 - Cooperated with diverse departments, addressing requests professionally and maintaining positive working relationships.
- Chinese YMCA of Hong Kong (Kowloon Centre) – Senior Mentor (Part time)** **Hong Kong, Jul 2018 – Sep 2022**
- Planned and prepared programs for 30+ participants. Led and guided 5+ junior mentors on implementing program activities.

COMPETITIONS & EXTRACURRICULAR ACTIVITIES

- University of Sheffield 'Engineering You're Hired' National Business Pitch Competition (2021) – Finalist** **United Kingdom**
- Project associate - Hip implant coating with RGD-CS-Ti
- Came 1st out of 20 teams cooperating in a team of 6, dedicated to commercialising a novel bioengineered hip implant coating.
 - Evaluated 10 years of profit margins by conducting rigid cost analysis, potentially saving the NHS £4.62million per year post-launch.
- Global Engineering Challenge & EWB Engineering for People Design Challenge (2020) - Finalist** **United Kingdom**
- Project Leader - Digital Travel Information
- Led a team of 6 interdisciplinary engineers devising a mobile application targeting real-life transportation issues with potential 22,500 users in Johannesburg. The proposal was recognized as the Best communicated overall solution among a field of 15 teams.
 - Implemented comprehensive stakeholder analysis to identify all relevant parties, ensuring the design has met all requirements.
- Imperial College & University of Sheffield Women's Basketball - First Team** **United Kingdom, Sep 2019 - Present**
- Represented university competitively in UK National leagues, demonstrated extraordinary commitment and team working.
- University of Sheffield Hong Kong Society - Secretary** **United Kingdom, Sep 2020 - Jun 2021**
- Facilitated communication between 50+ society members and the committee, ensuring efficient and timely responses to inquiries.
 - Organized and managed the society's meetings, taking minutes and circulating agendas to ensure the smooth running of events.

LANGUAGES

- Native in English, Cantonese. Fluent in Mandarin.