

MAN YUI LEE

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EDUCATION

Imperial College London

Oct 2022 - Oct 2023

MSc in Biomedical Engineering (Biomechanics and Mechanobiology)

London, UK

- Graduated with Distinction (Dissertation: 82.66)

University of Sheffield

Sep 2019 - Jun 2022

BEng in Bioengineering (Biomaterial science & Tissue Engineering)

Sheffield, UK

- Graduated with 1st Class Honours (Dissertation: 74.0)

Wymondham College (UK) | A-Levels : Maths, Physics, Biology, Chinese

Sep 2017 - Jun 2019

St. Mary's Canossian College (HK)

Sep 2013 - Jun 2017

MODULES

- Medical Imaging and Technology
- Medical Devices and Implants
- Orthopaedics & Fluid Mechanics
- Electric & Electronic Engineering
- Molecular & Cell Biomechanics
- Biomechanics & Biomaterials
- Statistics & Data Analysis
- Programming (Python)
- Finance, Law & Management

EXPERIENCES

Chinese University of Hong Kong

Jun 2021 – Aug 2021

Summer Undergraduate Research Programme – Research Attachment

Hong Kong

- Developed a high-throughput microfluidic platform with photolithography and analysed RBC deformability (1000/sec).
- Honored Best Presentation Award for effectively communicating complex findings to 80+ interdisciplinary engineers.

China Development Bank Hong Kong Branch

Jul 2019 - Aug 2019

Filing and Secretarial Clerk

Hong Kong

- Managed and processed 50+ confidential documents daily, collaborated with a 5-member team to ensure task efficiency.
- Facilitated cross-departmental cooperation, addressed professional requests & cultivated positive working relationships.

Chinese YMCA of Hong Kong (Kowloon Centre)

Jul 2018 - Aug 2021

Senior Mentor (Part-time)

Hong Kong

- Directed programs for 30+ participants, provided leadership and guidance to 4 junior mentors in activity coordination.

PROJECTS & AWARDS

Best academic performance in MSc Biomedical Engineering, Imperial College London

May 2024

Automated high-content microfluidic platform | Python, MATLAB, 3D printing, Laser cut, ELISA

Sep 2023

- Engineered an automated PMMA microfluidic system with integrated valves, facilitating simultaneous medium exchange across parallel channels, enhancing the scalability of drug screening devices to analyze > 24 drugs concurrently.

Cornea-on-Chip | Microfluidics, Cell culturing, Computational modelling, Image Processing

May 2022

- Developed an cornea-on-chip that recapitulates the dynamic *in vivo* blinking action for high-throughput drug testing.
- Accessed growth dynamics of epithelial monolayer under static and bi-directional shear flow in the platform.

Hip implant coating with RGD-CS-Ti | Business analysis & pitching, Risk assessments

Feb 2021

- UoS 'Engineering You're Hired' National Business Pitch Competition – Finalist
- Came 1st out of 20 teams cooperating in a team of 6, dedicated to commercialising a novel bioengineering hip implant.
- Evaluated 10 years of profit margins by conducting rigid cost analysis, potentially saving NHS 4.62M/year post-launch.

Digital Travel Information App | Project leader, Project management & analysis

Mar 2020

- Global Engineering Challenge & EWB Engineering for People Design Challenge - Finalist
- Led a 6-person interdisciplinary team to devise a mobile app addressing real-life transportation challenges in Johannesburg, securing the "Best Communicated Overall Solution" amongst 15 teams and potentially impacting 22,500 users.

Institution of Engineering and Technology (IET) Diamond Jubilee Scholarship

Jun 2019

EXTRACURRICULAR

Imperial College & University of Sheffield Women's Basketball - First Team

Sep 2019 – Sep 2023

- Represented university competitively in UK National leagues, demonstrated extraordinary commitment and teamwork.

University of Sheffield Hong Kong Society - Secretary

Sep 2020 – Jun 2021

- Acted as the first point of contact for the society & facilitated communication between 50+ members and committee.

SKILLS & LANGUAGES

Proficient in Python, MATLAB, Autodesk Inventor, AutoCAD, ANSYS, ImageJ, Excel, SQL, Tableau.

Native in English, Cantonese. Fluent in Mandarin.