

# Fan Chun Lun Frank

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## Education

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### **The Chinese University of Hong Kong**

*BSc. Biochemistry*

SEP 2020 – JUL 2024

*Cumulative GPA: 3.632/4.0*

### **Imperial College London**

*MRes Bioengineering, Cancer Technology*

SEP 2024 – Present

## Research Experience

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### **MRes Postgraduate Researcher**

SEP 2024 – NOW

*Professor Rylie Green's Lab, Imperial College London*

*UK*

- Synthesized hyaluronan acid-based hydrogels and PLGA microparticles for drug delivery to treat peritoneal metastasis
- Conducted systematic analysis on the use of hydrogels for peritoneal metastasis treatment
- Performed paclitaxel release kinetics studies

### **Undergraduate Researcher**

AUG 2020 – JUL 2024

*Professor Michael Kenneth Chan's Lab, CUHK*

*Hong Kong*

- Investigation on extending P16 protein half-life with pyrrolysine analogue
- Designed and rationally incorporated pyrrolysine analogue into P16 protein
- Performed E.coli. cell cloning and culturing
- Performed protein purification on P16 constructs
- Performed cell arrest assays and flow cytometry on MCF-7 cells
- Successfully extended the half-lives of P16 proteins

### **Research Assistant for systematic analysis**

JAN 2023 – SEP 2023

*Dr. Benjamin Mu-Hsing Ho, HKU*

*Hong Kong*

- Published review on the prevalence of cancer-related cognitive impairment among lung cancer survivors
- Systematically reviewed research papers regarding cognitive impairment in lung cancer patients
- Edited manuscript for the review

## Work Experience

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### **HackED Engineering Workshop**

OCT 2024 – NOV 2024

*Imperial College London*

*UK*

- Designed microfluidic chips with Autodesk fusion
- Assembled a spectrophotometer with Arduino chip by soldering
- Learnt about 3D printing and laser cutting
- Learnt basics of Arduino programming
- Successfully assembled an automated spectrophotometer

### **Ambassador for Hong Kong Laureate forum**

OCT 2023 – NOV 2023

*The Council for Hong Kong Laureate Forum*

*Hong Kong*

- Accompanied 2017 Shaw prize laureate Professor Simon White in the event
- Facilitated in the organization of science talks and school sharing
- Coordinated communication between the laureate and the council

### **Volunteer for Heartline HK**

FEB 2023 – JUL 2023

*Heartline HK*

*Hong Kong*

- Supported clients with emotional distress on Heartline platform
- Practiced active listening to relieve clients' emotions

- Learnt about protocols to handle clients with suicidal thoughts

**Clinical Attachment**

NOV 2023

*Dr. Chan Yee Shing's Clinic*

*Hong Kong*

- Clinical shadowing at a pediatric clinic
- Practiced collecting patient's clinical history

**Clinical Outreach**

AUG 2023

*Hong Kong Sheng Kung Wui Welfare Council*

*Hong Kong*

- Clinical shadowing with Dr. Henry Pang
- Helped wash a stage 4 pressure sore
- Helped wash a pressure wound for a patient with poliomyelitis

**Hospital Volunteer**

JUL2023 – AUG 2023

*Hong Kong Ruttonjee Hospital*

*Hong Kong*

*Awards & Honors*

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**S. L. Pao Education Foundation Schlorship**

*CUHK*

*2023-2024*

**Pang Ching Cheung Schlorship**

*United College, CUHK*

*2023-2024*

**Dr Rebecca B W Ho Schlorship**

*United College, CUHK*

*2023-2024*

**Dean's Honor List**

*Department of Biochemistry, CUHK*

*2022-2023*

**College Dean's Head List**

*United College, CUHK*

*2022-2023*

**Dean's Honor List**

*Department of Biochemistry, CUHK*

*2020-2021*

*Skills*

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**Wetlab skills:** *E.coli.* cloning and transformation, protein purification, protein mutagenesis, mass spectrometry, cell arrest assays, western blotting, flow cytometry

**Drylab skills:** PRISM, Pymol, Autodesk Fusion

**Design:** Photoshop, Illustrator, Bio-render

**Statistics and Programming:** Python, PANDAS, Matplotlib

**First Aid:** Basic and sports first aid

**Language:** English (IELTS:8.0), Cantonese, Putonghua, Japanese, French

*Other Interests*

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**Member:** U24 Hong Kong Dragonboat training team

**Member:** CUHK Dragonboat team

**Academic Secretary:** CUHK Student Association of Chemistry