

CHENG-HAN (HANK), HSIEH

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EDUCATION

PhD student in BioMedical Sciences & Immunology Since 2025

HKUMed - The University of Hong Kong, Hong Kong SAR

- **Doctorate Thesis:** TBC
- Hong Kong PhD Fellow & HKU Presidential Scholar

MSc in Applied Bioscience & Biotechnology 2024

Imperial College London, London, UK

- **Master Thesis:** Covalent Inhibitor Discovery by Quantitative Irreversible Tethering Screening
- **Review Article:** Exosome-Mediated CAR-T Cell Therapy for Cancer Immunotherapy

BSc in Medicine & Engineering 2022

Taipei Medical University, Taipei, Taiwan

- Overall GPA: 3.8/4.0 (87.17/100), Last two years GPA: 3.97/4.0 (90.94/100), Top5%, First-class honour
- **Bachelor Project:** Department exosome-liposome hybrid nanoparticle for target immunotherapy

RESEARCH INTERESTS

Immunotherapy, CAR-T therapy, Vaccine Development, Oncology, Exosome, Stem Cell, Precision Medicine, Cancer Diagnosis & Novice Treatment, Drug Delivery System, Drug Discovery, Microfluidics

RESEARCH EXPERIENCE

Doctoral Researcher 2025

Centre for Translational Stem Cell Biology, HKUMed & University of Cambridge

- **Project:** CAR-M Therapy with Exosome Drug Delivery System on Glioblastoma (PI: Dr Rio Sugimura)
- Designed next-gen CAR-immune cell therapy via exosome drug delivery system in neuro-related disorders

Postgraduate Researcher 2024

Dept. of Life Sciences, Imperial College London

- Literature Review: Exosome-Mediated CAR-T Cell Therapy for Cancer Immunotherapy (PI: Dr Matthew Child)
- **Project:** qIT Screening for Identifying Selective Covalent Drugs to Oncology Target (PI: Dr David Mann & Dr Emma Child)
- Explored potential electrophilic fragments targeted to the active site cysteine residues of GDP-L-fucose synthase
- Designed mutated plasmid, conducted protein expression and purification, analysed LC-MS, AutoDock Vina, and qIT assay results

Research Assistant 2022

Graduate Institute of Materials Science and Engineering, National Cheng Kung University

- **Project:** Effects of Platelet-derived growth factor and Hyaluronic Acid with porous collagen and stem cell on skin regeneration (PI: Dr Chun-Yen Liu)
- Developed standard protocols for different concentration growth factors and new drugs with porous collagen

Research Assistant 2019 - 2022

Graduate Institute of Biomedical Material & Tissue Engineering, Taipei Medical University

- **Project:** Department exosome-liposome hybrid nanoparticle for target immunotherapy (PI: Dr Der-Zen (Tony) Liu)
- Prepared drug-loaded liposomes as nano-drug carriers for a novel protein-based drug delivery system
- Produced mesenchymal stem cell exosomes for immunotherapy and molecularly targeted therapy

PROFESSIONAL EXPERIENCE

Product Development Intern 2023

Magnolia Evergreen Group (Shenzhen)

- Selected for the Association of Chinese Elite, Taiwan - 2023 Future Talent Internship Program (25 awardees per year)
- Analysed various types of products related to medical care, such as collagen, exosome, and laser instrument

Emergency Medical Technician **2023**
R.O.C. (Taiwan) Armed Forces
• Served compulsory military service at R.O.C. (Taiwan) Army Forces

Teaching Assistant **2019 - 2022**
College of Biomedical Engineering, Taipei Medical University
• Teaching three international senior high school students for basic web-lab experiment techniques for six semesters
• Organizing research projects centre around immunotherapy for the National High School Science Fair in Taiwan

Clinical Intern **2022**
Ministry of Health and Welfare (Taiwan) - Shuang-Ho Hospital
• **Project:** Prospects and Concerns in Taiwan's Advanced Clinical Medical Devices Market
• Participated in advanced medical equipment training and seminars on MRI, CT, PET, and the Da Vinci® Robotic system

Marketing & Patients Regulation Intern **2021**
Medtronic (Taiwan) Ltd.
• Regulated patients' medical records and ensured regular checks of pacemakers for over 1K patients across 34 hospitals
• Updated two MRI software for the department and assisted in designing programmers for clinical technicians

LEADERSHIP EXPERIENCE

Group Leader, Biomedical Sciences Seminar, The University of Hong Kong **2025**
Manager, Social Media Group, Imperial College London Taiwanese Society **2023 - 2024**
Vice President, Piano Club, Taipei Medical University **2019 - 2022**
Director of Academic Affairs, Dept. of BME, Taipei Medical University **2019 - 2022**
Organiser, International Companions for Learning Programme, National Taiwan University **2022**
Academic Consultant Director, Taipei Municipal Xinyi Junior High School **2020**

HONOURS & AWARDS

Hong Kong PhD Fellowship Scheme, Hong Kong SAR Government, HK **2025**
HKU Presidential PhD Scholar Programme, The University of Hong Kong, HK **2025**
Postgraduate Scholarship, The University of Hong Kong, HK **2025**
HKUMed's Doctoral Entrance Scholarship for Medical Research Excellence, HK **2025**
MSc Research Project Awarded with Distinction, Imperial College London, UK **2024**
International Master's Research Position (9 awardees in 2023), The University of Tokyo, Japan **2023**
The Association of Chinese Elite (Taiwan) Student Member (25 awardees in 2023), TW **2023**
Engineering and IT Foundation Graduate Scholarship, The University of Melbourne, Australia **2022**
BSc Practicum in Clinical Engineering Awarded with Distinction, Taipei Medical University, TW **2022**
BSc Graduation Project Awarded with Distinction, Taipei Medical University, TW **2021**
Top5 in the Individual Research Project Competition, Taipei Medical University, TW **2021**
Top1% in the General Scholastic Ability Test (Taiwan), TW **2018**

PROFESSIONAL MEMBERSHIPS

Association of Clinical Research Professionals - Member
British Society for Immunology - Student Member
Hong Kong Life Science Society - Member
International Union of Biochemistry and Molecular Biology - Student Member

CERTIFICATES & SKILLS

Language: English (Fluent, C1; GRE320, AW4.0), Mandarin (Native), Taiwanese (Native), Japanese (Intermediate)
Programming Language & Data analysis: Python, Matlab, Graphpad and MS Excel