

## **EDUCATION**

---

### **THE HONG KONG POLYTECHNIC UNIVERSITY (PolyU)**

- **Master in Physiotherapy**

**Jan 2025-**

### **THE CHINESE UNIVERSITY OF HONG KONG (CUHK)**

- **Ph.D. in Biomedical Sciences** **Aug 2016-Sep 2020**  
(Dissertation titled: The Application of 3D bioprinting and bio-patterning in Musculoskeletal Tissue Regeneration)
- **Bachelor of Engineering in Biomedical Engineering** **Sep 2012-Jul 2016**  
(Thesis titled: The Effect of Poloxamer-188 in Protecting Muscle from Compressive Injury)

## **PERSONAL DEVELOPMENT**

---

- **Group Leader, CUHK Postgraduate Student Association Orientation Camp**
- **Resident Tutor, Shaw & Wu Yee Sun College, CUHK**
- **Scholar Member of Professor Charles K. Kao Scholars Association**
- **Vice President, Postgraduate Student Association of Biomedical Sciences, CUHK**
- **Master of ceremonies, United College, CUHK**
- **Student Ambassador, Office of Academic Links (China), CUHK**
- **Student Campus Tour Guide, CUHK Cultural Trail, Office of the Arts Administrator, CUHK**

## **WORK AND RELATED EXPERIENCE**

---

### **CENTRE FOR NEUROMUSCULOSKELETAL RESTORATIVE MEDICINE**

#### **Postdoctoral Fellow**

**June 2022 -July 2024**

- Conducted in projects of nerve rehabilitation and stem cell therapies for neurological diseases using multidisciplinary approaches
- Oversaw the Laboratory operation, Inventory & Equipment maintenance
- Developed SOPs for molecular assays, cell cultures and animal handling
- Prepared grant proposals, research reports and papers.

### **HONG KONG INSTITUTE OF BIOTECHNOLOGY**

#### **Quality Control (QC) Scientist - Advanced Therapy Product (ATP) GMP Centre**

**Jan 2021-June 2022**

- Supported in establishing the ATP GMP QC Laboratory in compliance with PIC/S GMP principles for Advanced Therapy Products (ATP)
- Developed, implemented, and maintained the QC documentation system, including the Standard Operating Procedures (SOPs) for ATP
- Performed sampling and QC testing of raw materials, intermediates, final products and any other testing samples per approved procedures and specifications
- Supported in batch production record review and coordinated product release of cell-based ATP for clinical applications

## **VOLUNTARY/COMMUNITY SERVICE PROJECT**

---

### **U-STEMist Scheme Caring Society, CUHK Jockey Club Institute of Ageing, CUHK**

**March-June 2018**

- Worked on optimizing the Pre-existing Geriatrics Online Survey through graphic and computer-based approach
- Promoted preventive healthcare among the elderly and empowered them in health management
- Established a user friendly semi-automated personal health monitoring system for elderly
- Created videos for simple physiological exercise for elderly in daily rehabilitation

### **Social Service project, United College, CUHK**

**Jan 2015-May 2015**

- Acquired the basic knowledge of community caring and learnt how to practice "Service-Learning" into society
- Cooperated with the charity "明愛蘇沙伉儷綜合家庭服務中心" to design an event for low income family in broadening low income family children horizons and fostering the relationship between parents and children
- Developed an awareness towards populations in need and identified ways to serve different groups of populations

### **Force of Nature- Geology and Ecology Exploratory Scheme, I.CARE Programme, CUHK**

**Sep 2014-April 2015**

- Planned and Led Eco Tours for secondary school students from grass-root family in Yuen Long District
- Coached secondary school students to conduct their own mini ecological projects

- Designed promotional activities and workshops to raise public awareness in environmental friendliness

#### **Sunshine Programme-Student Counselling team, CCC Kei Long College**

**Sep 2007-May 2011**

- Worked as senior committee for organizing adventure-based camp for students
- Planned and organized counselling workshops in helping students cope with the stress
- Cooperated with charities and coached junior students to organize their own service work in the related charities each year

#### **AWARDS**

---

##### **Third Prize in the Life Sciences, Challenge Cup 2019**

**May 2019**

- Project: CRISPR/Cas 9 3D bioprinted platform for rare genetic disease modelling

##### **Merit Award, Professor Charles Kao Student Creativity Awards Competition 2019, CUHK**

- Project: Novel fluidic assisted CRISPR/Cas 9 3D bioprinted platform for personalized therapeutics of genetic diseases

##### **First Runner-up in Poster Presentation, 6<sup>th</sup> Cross-Strait Symposium on Biomedical Sciences, Kunming**

**Aug 2018**

- Project: Generation of skeletal tissue on chips for Personalized Therapeutics

##### **Grand Finalist, Engineering Medical Innovation Global Competition 2018, Hong Kong**

- Project: Capillarized Contractile Cardiac Biochips for Personalized Therapeutics

##### **Innovation Award & Second Prize in the Life Sciences, Challenge Cup 2018**

**May 2018**

- Project: Capillarized Myocardium Biochips for Personalized Therapeutics

##### **Top 50 the most innovative project, HKXF FYP+ Scheme**

**March 2018**

- Project: Development of Capillarized Contractile Cardiac Muscle Chips

##### **Honorable Mention Award, 5<sup>th</sup> Cross-Strait Symposium on Biomedical Sciences, Taiwan**

**Nov 2017**

- Project: Generation and Characterization of bio-ink for 3D bioprinting

##### **Dean's List 2015-2016, Faculty of Engineering, CUHK**

**March 2017**

- Outstanding academic performance of Biomedical Engineering Programme

#### **PUBLICATIONS**

---

1. Pang, T., Ooi, H., Ho, Y.P., & Wan, C. (2018). Biopatterning of Stem/Progenitor Cells in Tissue-Mimicking Micro-Scaffold. (MicroTAs 2018 Conference Proceeding).
2. Wong, S. W., Cheung, B. C. H., Pang, B. T. K., Kwong, A., Chung, A., Lee, K. K. H., & Mak, A. F. T. (2017). Intermittent vibration protects aged muscle from mechanical and oxidative damage under prolonged compression. Journal of biomechanics, 55, 113-120.

#### **OTHER QUALIFICATION**

---

- 普通話水平測試二級甲等, 國家語言文字工作委員會
- Certificate of Graduation-Certificate in Stretch and Exercise Therapy, HKFYG Continuous Learning Centre & Hong Kong Stretching Exercise Association