

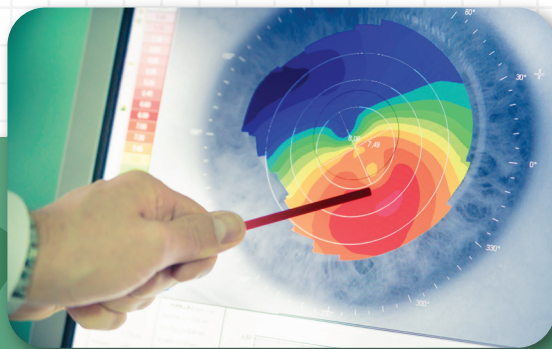
# Research Centre for SHARP Vision

視覺科學研究中心





# SHARP Structure 結構



## Shape Bioengineer 生物塑形工程

Reshaping ocular refractive structures and related components by applying biomedical engineering approaches.

透過應用生物醫學工程的方法重塑眼部屈光結構及相關部分。



## Health Process 健康發展進程

Enhancing healthy visual development by understanding healthy and aberrant process using cutting-edge bioinformatics technology.

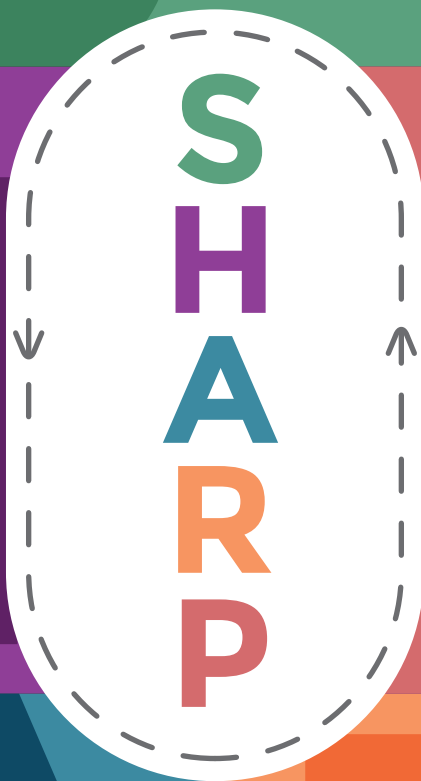
運用尖端的生物資訊科技，了解健康及異常的視覺發展過程，從而提升視力健康。



## Patient Care 全人護理

Ensuring the best eyesight and eyecare system with a holistic psychosocial approach for myopic and aging individuals through an optimized health care system.

通過整全、以人為本和優化的醫療保健系統，為近視患者和長者提供最佳的視力和眼睛保健服務。



## Augmentation Therapy 擴增療法

Empowering visual optics and quality of vision by innovative ophthalmic aids and circuits.

透過致力研發創新科技，提升視覺質量。

## Regeneration Neurovision 神經視覺復元

Preserving and restoring vision, psychosocial health and quality of life for aging and disease-related visually impaired population.

研發嶄新科技，幫助長者以及視障人士保留及修復視覺，並改善他們的社交心理健康及生活質素。





# Research Focus Areas

## 研究重點領域

### Myopia: from mechanism to intervention 近視：從機制到干預

To unravel the basic mechanisms of healthy visual system development from the eye to the brain.

透過跨學科研究，探索健康視覺系統發展的基本機制。

01

### Children Vision: from seeing to learning 兒童視覺：從看見到學習

To research into the maintenance of healthy life-long sharp vision.

研究維持長久健康敏銳的視力。

02

### Neurovision: from rehabilitation to regeneration 神經視覺：從康復到再生

To develop capabilities for optimizing, restoring and regenerating vision.

建立優化、恢復和再生視力的能力。

03



# Vision 願景

To be a world leader in the creation of knowledge and solutions for the promotion of healthy life-long sharp vision.

透過創造知識和解決方案，協助人類維持長久、健康而敏銳的視覺，成為世界領先的研究中心。

## Mission 使命

### 01 To promote healthy development of vision 促進視覺健康發展

To understand and safeguard the developmental processes that are destined for comfortable, binocular and 20/20 vision, and to provide solutions to ensure healthy vision development.

了解視覺系統的發展，以守護視覺健康及提升整體視覺健康水平(20/20 視覺)，並提供促進健康視覺發展的解決方案。

### 02 To maintain healthy life-long sharp vision 保持長久健康而敏銳的視力

To understand the causes of visual impairment and to provide solutions to sight-threatening eye diseases and age-related vision loss.

了解視障的成因，以提供解決因眼疾及人口老化引致視覺受損的方案。

### 03 To restore, regenerate and rehabilitate vision 視覺修復、再生及康復

To understand the processes and conditions that lead to visual impairment and to create solutions for vision restoration and rehabilitation.

了解導致視障的過程和狀況，並為視覺恢復和康復制訂解決方案。

## Contact Us 聯絡我們



+852 3400 2312



info.rcsv@polyu.edu.hk



<https://www.polyu.edu.hk/rcsv>

