APAO International Fellowship Program (IFP) Report

It was a tremendous honor to be selected for the APAO International Fellowship Program (IFP), which enabled me to undertake a research fellowship at the School of Optometry and Vision Science, New Zealand National Eye Centre, University of Auckland.

During my overseas study, under the guidance of Professor John Phillips, I conducted in-depth research focusing on the mechanisms of myopia development in children and optical intervention strategies. This valuable opportunity allowed me to gain insights into visual science research methods and technologies, participate in research exploring vision mechanisms, and investigate new optical intervention approaches for preventing myopia progression in children.

(With Professor Andrew Collins and Professor John Phillips)

During my stay, I had the privilege to participate in several innovative research projects:

1. Under Dr. Maggie's guidance in Professor John Phillips' eye clinic, I learned to apply SS-OCT technology to measure choroidal blood flow under different behavioral environments. I mastered strict experimental protocols, including standardized requirements for subject preparation before measurements, and professional skills in using programming software for data extraction.

2. In Professor John Phillips' myopia animal laboratory with Dr. Aan Chu, I learned methods for establishing myopia models using zebrafish and conducted in-depth research on the effects of longitudinal chromatic aberration on myopia development.

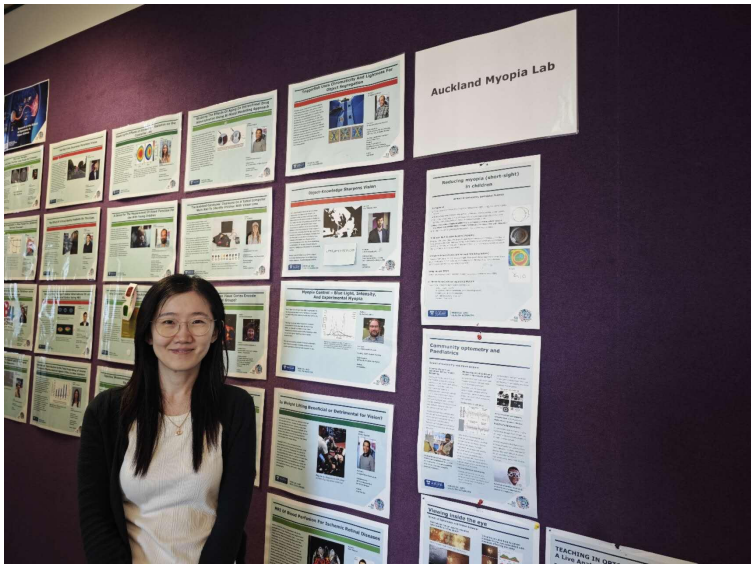
(With Professor Monica Acosta in the animal laboratory)

3. Participated in Dr. Emily Benefer's innovative MCSA glasses sensor research. This project designed a lightweight sensor for glasses generates

precise data on children's glasses wear patterns, providing new insights for myopia control compliance research.

4. In Professor Misha Vorobyev and Dr. Ronan's visual psychology laboratory, I learned of using the spectrometer for color assessment; learning visual psychology experimental design methods, particularly studying the relationships between emotions and colors, music and colors; and mastering techniques for building visual psychology experimental models using Matlab.

This fellowship has profoundly impacted my professional development, demonstrating the invaluable role of APAO IFP in nurturing emerging scholars. The program has not only expanded my academic horizons but also facilitated the establishment of lasting international research collaborations. I look forward to implement the advanced concepts and methodologies acquired in New Zealand at my home institution, making positive contributions to children's myopia prevention and control.



(Workplace at the School of Optometry and Vision Science, New Zealand National Eye Centre, University of Auckland)

I would like to express my sincere gratitude to APAO IFP for providing this valuable opportunity and to the New Zealand National Eye Centre at the University of Auckland for their guidance. This experience will undoubtedly have a profound positive impact on my professional development and academic research.

(As one of the program participants, attending a PhD student's proposal presentation)

(Group photo with colleagues at the year-end gathering)