

## Plan Overview

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*A Data Management Plan created using HKUL DMPTool*

**Title:** Creating supportive environments to bridge the digital divide for older people

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**Affiliation:** The University of Hong Kong

**Principal Investigator:** Ying Zhao

**Data Manager:** Ying Zhao

**Project Administrator:** Xiao Hu

**Template:** HKU Template

### **Project abstract:**

At a time when the global population is rapidly ageing, ageing is putting enormous pressure on public policies and facilities in various countries. This problem is not evident in developing countries with high population density and low per capita income. This demographic trend requires the government to allocate more resources, especially health care resources, to care for the growing elderly population at a time when the working population is declining. However, with the progress of science and technology, digital technology plays an indispensable role in all aspects of people's daily life, including the life of the elderly. Digital technology is now widely used by the elderly for social interaction, medical care, online learning, entertainment and cognitive enhancement, so as to improve the quality of life of the elderly and keep up with the pace of society. The government hopes that the development of digital health technology will be relatively low-cost and effective to alleviate the economic and medical burden of society. However, in practice, it was found that the elderly had the most difficulty using digital technology due to lack of digital literacy and skills and physical function challenges (for example, difficulty reading screen text). As a result, there is a significant gap between the widespread availability of e-health resources and older persons who have the skills to use them effectively. It is especially important to build their ability to search, navigate, understand and

evaluate online health information.

The purpose of this paper is to examine the level of e-health literacy and the factors that affect e-health literacy level of Chinese elderly and improve elderly's e-health literacy through intergenerational interventions. Study 1 will explore the level and influencing factors of Chinese elderly people's access to e-health literacy through quantitative questionnaires. Study 2 used a design-based research (DBR) approach to design a digital health improvement curriculum for seniors and their grandchildren to learn together in an face-to-face learning environment in day care centers and to explore the effectiveness of the intervention. This study will be divided into three rounds, each round will involve two months of experiments and one month of summary enhancement.

**Start date:** 12-01-2024

**End date:** 11-30-2025

**Last modified:** 10-25-2024

**Copyright information:**

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## **Creating supportive environments to bridge the digital divide for older people**

### **Data Collection**

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#### **What data will you collect or create?**

In study 1, the participants will participate in eHealth literacy related pre and post writing questionnaires (15 mins each).

In study 2, the participants will

1. join 8 workshops to learn the basics of digital health knowledge(8 weeks, 90 minutes each)
- 2.Participate in pre and post writing questionnaires (15 mins each).
3. Participate in an interview (30 mins).

#### **How will the data be collected or created?**

The data will be collected through offline questionnaires and interviews.

### **Documentation and Metadata**

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#### **What documentation and metadata will accompany the data?**

A readme file will be provided with the data to explain the methodology used, analytical and procedural information, definitions of variables, vocabularies, and units of measurement. Metadata will include the contributors, title, data of creation, license, file format, and file type.

### **Ethics and Legal Compliance**

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#### **How will you manage any ethical issues?**

The data will not be collected until the research ethics approval is obtained from the Human Research Ethics Committee (HREC) in HKU.

#### **How will you manage copyright and Intellectual Property Rights (IP/IPR) issues?**

I will own the copyright of the data.

### **Storage and Backup**

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**How will the data be stored and backed up during the research? i. e. until stored in the final location (e.g. on your password protected laptop)?**

Data containing personal identifiers will be kept in Ying Zhao's office for a minimum of 3 years, after which the personal identifiers will be removed from the data. Entered data will be stored on a password-protected file and a password-protected computer, while original, anonymized hard copies of the questionnaires will be stored in a locked office until 3 years past publication.

**How will you manage access and security?**

Entered data will be stored on a password-protected file and a password-protected computer, while original, anonymized hard copies of the questionnaires will be stored in a locked office until 3 years past publication.

### **Selection and Preservation**

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**Which data are of long-term value and should be retained, shared, and/or preserved?**

The data can be used to validate my research findings, conduct new studies, or for teaching.

**What is the long-term preservation plan for the dataset?**

HKU DataHub

### **Data Sharing**

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**How will you share the data?**

I will share all raw and processed data with my supervisor Prof Hu. All the participants have right to access their own recordings.

**Are any restrictions on data sharing? If yes, Why?**

No restrictions.

### **Responsibilities and Resources**

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**Who will be responsible for data management?**

Ying Zhao

**What resources will you require to deliver your plan?**

No

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