JUNIOR RESEARCHER MENTORING PROGRAMME 2022

Code:	JRMP2022_09
School / Department:	Department of Aeronautical and Aviation Engineering
Name of Research Leader:	Dr Fan Li, Assistant Professor
Research Topic:	Body Anthropometric Measurements of Hong Kong Adult and Elderly Population
Short Description of the Research Project:	With the advanced medical technologies and health care systems, the world is facing the problem of an aging population. To improve the wellness of the aging population, it is worthwhile to analyze the elderly people's anthropometric data for product and workstation design. The aims of this study are: 1) to build the anthropometric database of elderly people in Hong Kong; 2) to investigate the differences in anthropometric data across genders, age groups and countries; 3) to propose some product and workstation design for the elderly people. Participating students are expected to collect data from 200 local subjects (100 adults and 100 elderly people; each group consisted of 50 male and 50 female subjects). The 36 body dimensions selected from ISO 7250 will be

	collected. All body dimensions will be measured manually using digital calipers and measuring tapes. The mentor will share some hands-on experience in conducting the measurements and introduce some statistical analysis, such as t-test and F-test for data analysis. Additionally, the mentor will share the anthropometric measurement comparisons between Hong Kong and Singapore. The findings and the anthropometric data from this study can be used for relevant consideration in the development of ergonomic products, equipment and workstation design.
No. of Places Offered:	3
Frequency of Meetings:	Bi-weekly
Special Requirement(s):	- Interested in designing for elderly people - Good at Mathematics

* The information presented above is subject to change.