

HONG KONG BAPTIST UNIVERSITY
Talent 100 PhD Scholarship Scheme (2021-2022 Cohort)
List of Potential Principal Supervisors

No.	Name	Faculty/ School/ AVA	Department	Research Interests	Research Profile	Preferred Student's Background
Smart Society Lab						
1	Prof. Min Hua LIU	Arts	Translation, Interpreting and Intercultural Studies	<p>Prof. LIU is interested in cognitive mechanisms and processes in bilingual tasks and behaviors, including translation and interpreting between two languages. Specifically, she has been exploring language comprehension, language production, access to the bilingual mental lexicon, language transfer, and monitoring as cognitive behaviors and how abilities in these areas are acquired, developed and lost. Related to these aspects, her research also touches upon expertise development, specifically, how bilingual abilities evolve with training and experience the role individual differences play in the process and result of such development.</p> <p>Prof. LIU's another research interest involves making information, such as health information and government communications, more accessible to the public by making them easier to read and understand. Her previous research in testing and assessment involves the judgement of the readability of written materials in language examinations and she is currently expanding her research to encompass information meant for the public.</p>	https://ctn.hkbu.edu.hk/people/min-hua-liu/	Students with strong English and Mandarin and who are interested in conducting empirical studies and, preferably, who have some training in research methodology.
2	Prof. Ge ZHANG	Chinese Medicine	Chinese Medicine	<p>Prof. ZHANG's research interest is mainly focusing on the aptamer-based translational medicine and drug discovery at the following three aspects, where the wisdom of traditional Chinese medicine meets modern science and technology:</p> <p>(1) Aptamer-based targeted delivery towards translational medicine (2) Aptamer-drug conjugates toward precision medicine (3) Therapeutic aptamer</p> <p>Dr LIU Jin will serve as the Co-I.</p>	https://scm.hkbu.edu.hk/en/expertise/detail/expertise_36.html	Clinical medicine (orthopaedic or related specialties) with some lab experiences.
3	Dr Yuanyuan ZHOU	Science	Physics	Dr ZHOU's research group is interested in innovating semiconductor and device technologies for the use as multifunctional components in the future smart society.	https://www.alvinyzhou.com/	Physics, Materials Science, Engineering.
4	Dr Yin Wah CHU	Social Science	Sociology	<p>Dr CHU's research interests center on two main areas:</p> <p>(1) Political economy of development in East Asia - The first area of interest concerns the changing roles of the state in facilitating economic development in China, South Korea, and Taiwan. More recently, the study has extended to examining the issue of social sustainability, in particular, how divergent development strategies have coupled with geo-political factors to shape labor market and more generally welfare conditions.</p> <p>(2) Social and political movements - Beginning with the study of social and political movements that contributed to the democratic transitions in South Korea and Taiwan, Dr CHU went on to study internet-facilitated labor and environmental movements in Hong Kong. More recently, she has been paying attention to resistance against land expropriation in China. The effort is ongoing.</p>	https://socweb.hkbu.edu.hk/people/academic_staff_detail/2/	Training in sociology and/or political science.
5	Dr Kwok Pan CHUN	Social Science	Geography	<p>Smart household power management based on big data provides practical climate change solutions and facilitates comfort living.</p> <p>Dr Daphne MAH (https://scholar.google.com.hk/citations?user=-8Nxsk4AAAAJ&hl=zh-CN&oi=ag) will serve as the Co-I.</p> <p>They will design new smart algorithms to deliver the energy-saving advices to households based on long-term climate analysis and smart energy meter measurements.</p>	https://scholar.google.com.hk/citations?hl=en&user=LengPzwAAAAJ	Interested in environmental studies or sciences for interdisciplinary data analytic research.

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6	Dr Meng GAO	Social Science	Geography	<p>Dr Xian YANG (https://www.comp.hkbu.edu.hk/v1/?page=profile&id=xianyang) will serve as the Co-I.</p> <p>Their research is mainly motivated by mitigation of air pollution and climate change. They seek to understand the causes of air pollution and climate change, their impacts on human health, ecosystem, etc, and how can mitigate their impacts.</p>	https://research.hkbu.edu.hk/researcher/meng-gao	Computer Sciences, Engineering, Geosciences, etc.
7	Prof. Daniel W. L. LAI	Social Science	Social Work	<p>Prof. LAI is Chair Professor and Dean of Faculty of Social Sciences in the Hong Kong Baptist University. He was the former Director of Institute of Active Ageing and Head of Department of Applied Social Sciences in The Hong Kong Polytechnic University. His expertise includes health and aging, culture and immigration, and outcome evaluation. Other than conducting research in the area of population aging, Prof. LAI serves on the Board of Directors of the American Society on Aging. He is also Vice-President of the Hong Kong Association of Gerontology.</p>	<p>https://sowk.hkbu.edu.hk/en/people/faculty_staff_detail/35?back=%2Feb%2Fpeople%2F</p> <p>https://orcid.org/0000-0001-6365-3189</p> <p>https://scholar.google.com/citations?hl=en&user=ru1YDLwAAAAJ&view_op=list_works&sortBy=pubdate</p>	Social Sciences, Sports, Physical Education, Health, Business, Computer Sciences, Communication.
8	Dr Jianfeng LI	Social Science	Geography	<p>Dr LI's major research interests include hydroclimatology, environmental change, and water hazards, focusing on climate change impacts on hydrological processes and the environment especially hydrological and climate extremes.</p> <p>Prof. Qiming ZHOU (https://geog.hkbu.edu.hk/people/detail/445/) will serve as the Co-PI. His research interests cover a broad area of geo-spatial information science, particularly in geo-computation and remote sensing applications.</p> <p>The proposed project aims to develop smart hydrological tools to make use of big data and AI to improve the understanding, simulation, and forecast of hydrological processes. They will use conventional (e.g. in-situ and remote sensing observations) and new (e.g. geotagged social data) big data associate with hydrology as well as the latest development of AI to construct a smart hydrological platform for flood simulation and forecast.</p>	https://geog.hkbu.edu.hk/people/detail/402/	Hydrology, Geoinformatics, Computer Sciences.
9	Dr Daphne MAH	Social Science	Geography	<p>Dr MAH researches the technology-human interface of sustainable energy transitions, specialising in interdisciplinary research that cuts across the fields of energy technologies (smart grids, renewable energy, and nuclear power), energy governance, social acceptance, public engagement, and comparative policy studies across national, city, and community contexts in the Asian region, covering the Mainland China, South Korea, Japan and Hong Kong.</p> <p>Dr Byron CHOI (https://www.comp.hkbu.edu.hk/v1/?page=profile&id=choi) and Dr Kwok Pan CHUN (https://scholar.google.com/hl=en&user=LengPzwAAAAJ) will serve as the Co-Is.</p>	https://scholar.google.com/hl=en&user=-8nXsk4AAAAJ&hl=zh-CN&oi=ao	<p>(1) Highly motivated PhD students who are enthusiastic in exploring the interface between sustainable energy, big data analytics, and people (public/community engagement) for sustainability futures in Hong Kong.</p> <p>(2) University graduates with at least an upper second class honours' degree or a Master degree or equivalent, or in the final year of a programme that is expected to deliver that qualification.</p> <p>(3) Have training in at least one of the following fields: urban energy, transitions, smart grids, energy saving, renewable energy, climate/energy governance and policies, public/community engagement, climatology, GIS, and big data analytics.</p> <p>(4) Familiar with qualitative and quantitative research methods, and have excellent communication skills.</p> <p>(5) Ability to speak Cantonese and read Traditional Chinese would be highly preferred though not a must.</p> <p>(6) Applicants from a university outside Hong Kong is required to obtained a minimum score in the TOEFL at 550 (PBT)/79 (IBT) or IELTS at 6.5.</p>

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10	Prof. Donggen WANG	Social Science	Geography	Prof. WANG's research interests span the built environment and travel behaviour, big data and transport analytics, health and wellbeing geography. Among other endeavors, Prof. WANG was involved in transport research using big data such as smart card data, taxi trajectory data, Point of Interest (POI) data, and mobile phone tracking data.	https://geog.hkbu.edu.hk/people/detail/583/	Geography, Transport/Urban Studies, Civil Engineering, Computer Science.
11	Prof. Qiming ZHOU	Social Science	Geography	Prof. ZHOU's research interests cover a broad area of geo-spatial information science, particularly in geo-computation and remote sensing applications. Dr Jianfeng LI (https://geog.hkbu.edu.hk/people/detail/402/) will serve as the Co-I and his major research interests include hydroclimatology, environmental change, and water hazards. In the era of big data, a large volume of data about climate change has been accumulated. This data includes traditional observations of the climate, biosphere and other aspects of the earth (e.g. site observations and remote-sensing), and also social data about human's feeling, perception and motions of climate change. How to dig out the information of big data to understand, forecast and mitigate climate change has been an emerging issue in geography. The project will employ the latest technologies of geo-analytics to analyze big data in climate change.	https://geog.hkbu.edu.hk/people/detail/445/	Geoinformatics, Geography, Computer Science.