List of Potential Hosting Institutions for Professor Charles K. Kao Research Exchange Scholarship 2023

Code No.	Institution	Department/Professor Nominated	Topics/Areas of the Research Project	Student Place(s) Available
1	University of Sydney, Australia	**Prof. Alistair McEwan** ARC Training Centre for Innovative BioEngineering Website: https://www.sydney.edu.au/engineering/about/our-people/academic-staff/alistair-mcewan.html	Exoskeleton Robotic Device for Cerebral Palsy Gait Disorders	1-2
2	Monash University, Australia	**Prof. Chao Chen** Department of Mechanical and Aerospace Engineering Website: https://www.monash.edu/engineering/chaochen	Exoskeleton Robotic Walking Device for People with Disability	1-2
3	National Taiwan University, Taiwan	**Prof. An-Chi Wei** Department of Electrical Engineering Graduate Institute of Biomedical Electronics and Bioinformatics Website: https://ntubmse.com/	Systems biology, modeling and simulation of biological systems, bioinformatics and database, machine learning, bioenergetics and metabolism	1-2
4	Technika University of Gdańsk, Poland	**Prof. Małgorzata Szczerska** Associate Professor Department of Metrology and Optoelectronics Technika University of Gdańsk Website: https://pg.edu.pl/p/malgorzata-szczerska-15897	Fiber optic sensors, biomedical optics	1-2

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5	Chang Gung University, Taiwan	**Prof. Thomas Kin Fong Lei** Graduate Institute of Biomedical Engineering, Chang Gung University, Taiwan Research Fellow, Department of Radiation Oncology, Chang Gung Memorial Hospital, Taiwan Website: https://sites.google.com/site/cgubiomems/	Cell culture in microfluidic device	2
6	University of Limoges, XL IM Research Institute (CNRS), France	**Dr. Shuwen Zeng** CNRS Permanent Researcher Website: http://www.unilim.fr/pages_perso/zeng/Research.html	Nanomedicine, biosensor and bioimaging	1-2
7	Duke-NUS medical school; Singapore Eye Research Institute, Singapore National Eye Centre, Singapore	**Prof. Leopold Schmetterer** SERI, Singapore National Eye Centre Website: https://www.duke-nus.edu.sg/directory/detail/leopold-schmetterer	Medical imaging, eye imaging, Ocular Imaging, Optical coherence tomography, Deep learning.	1-2
8	Nantes Université, France	**Dr. Catherine Le Visage** Research Director, Deputy head INSERM UMR 1229 – Regenerative Medicine and Skeleton (RMeS) Group leader "Hydrogels and joint microenvironment" School of Dental Surgery	Biomaterials and tissue engineering for cartilage and joint regeneration	1

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9	National Tsing Hua University, Taiwan	**Prof. Hsu-Hsia Peng** Department of Biomedical Engineering and Environmental Sciences Website: https://sites.google.com/view/mrm412/	1. Magnetic resonance imaging 2. Deep Learning and Machine Learning in Biomedical Imaging	1-2
10	New Jersey Institute of Technology, United States of America	**Prof. Mengqiang (Mark) Zhao** Otto H. York Department of Chemical and Materials Engineering	Low-Dimensional Materials for Electronics and Biosensors	1-2
11	McGill University, Canada	**Prof. Sara Mahshid** Canada Research Chair in Nano-Biosensing Devices Department of Bioengineering	Nano-Biosensing Devices	1-2
12	National University of Singapore	**Prof. Shengdong Zhao** Department of Computer Science	Automatic adaptation of blackboard style videos for ubiquitous viewing (Area of research, Human Computer Interaction, Computer Vision, AI)	1

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13	University of Waterloo Waterloo, Ontario Canada	**Prof. Yang Lu** Assistant Professor David R. Cheriton School of Computer Science Website: https://cs.uwaterloo.ca/about/people/yanglu	1. Developing machine learning and statistical methods for genomics and proteomics data analysis using interpretable machine learning, reproducible (error-controlled) machine learning, and heterogeneous data integration 2. Developing interpretation methods to find scientifically interesting and statistically confident hypotheses from complex biological data from single-cell genomics, mass spectrometry-based proteomics, and metagenomics	1-2
14	Yale University, USA	**Prof. Hong X.Tang** Department of Electrical Engineering Website: https://www.eng.yale.edu/tanglab/	Photonics	1-2

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15	University of Warwick, UK	**Prof. Emma MacPherson** Professor Department of Physics Website: https://warwick.ac.uk/fac/sci/physics/staff/academic/emacpherson/	1. Data classification of TeraHertz imaging data; or 2. Robot-assisted positioning of TeraHertz probes for patient imaging.	1
16	National Yang Ming Chiao Tung University, Taiwan	**Prof. Chow Chi Wai Full** Professor Department of Photonics Webiste: https://cwchow.lab.nycu.edu.tw/	Optical Wireless Communication (OWC)	1
17	University of Georgia, USA	**Prof. Mable Fok** Associate Professor School of Electrical and Computer Engineering Website: https://engineering.uga.edu/people/profile/ma ble-fok-ph.d	Fiber optic sensors for soft robotics	1-2

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18	University of Massachusetts Lowell, USA	**Prof. Yimin Chen** Assistant Professor Miner School of Computer & Information Sciences Website https://www.uml.edu/sciences/computer-science/faculty/chen-yimin-ian.aspx	1. Machine Learning 2. Internet of Things	1-2
19	Stony Brook University, USA	**Prof. Omar Chowdhury** (omar@cs.stonybrook.edu) Associate Professor Department of Computer Science Website: https://www3.cs.stonybrook.edu/~omar/	Formal Methods, Automated Reasoning, Program Analysis, Software Testing, Telecommunication Security	1-2
20	Purdue University, USA	**Prof. Ninghui Li** (ninghui@purdue.edu) Professor Department of Computer Science Website: https://www.cs.purdue.edu/homes/ninghui/	Differential Privacy, Adversarial Machine Learning	1-2

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21	Pennsylvania State University, USA	**Prof. Syed Rafiul Hussain** (hussain1@psu.edu) Assistant Professor Department of Computer Science and Engineering, Website: https://syed-rafiul-hussain.github.io/	Security and Privacy in Telecommunication, Software Testing, Binary Analysis	1-2
22	The University of Liverpool, UK	**Prof. Kate Black** Senior Lecturer in Additive Manufacturing Mechanical, Materials & Aerospace Eng https://www.liverpool.ac.uk/engineering/staff/kate-black/research/	1. Reactive Metal Jet Fusion Printing 2. Development of Laser Additive Manufacturing of Refractory Metals 3. Inkjet printing for Tissue Engineering	1-2
23	Oregon State University	**Prof. Xiao Fu** Assistant Professor School of Electrical Engineering and Computer Science Oregon State University Website: https://web.engr.oregonstate.edu/~fuxia/	Data Science; Machine Learning; Signal Processing; Tensor Analysis	1-2