



List of Potential Hosting Institutions for Professor Charles K. Kao Research Exchange Scholarship 2024

Code No.	Institution	Department/Professor Nominated	Topics/Areas of the Research Project	Student Place(s) Available
1	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
2	Technika University of Gdańsk, Poland	Prof. Malgorzata Szczerska Associate Professor Chair of the Biomedical Engineering Council Department of Metrology and Optoelectronics Technical University of Gdansk, Poland Email: malszcze@pg.edu.pl Website: https://pg.edu.pl/p/malgorzata-szczerska-15897	Fiber optic sensors, remote sensing, biomedical optics	1-2
3	French National Centre for Scientific Research (CNRS), Troyes, France	Dr. Shuwen Zeng CNRS Permanent Researcher Website: http://www.unilim.fr/pages_perso/zeng/Research.html	Optical biosensors, Microfluidics for biosensing and bioimaging, Lab on chip	1-2



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4	New Jersey Institute of Technology, USA	Prof. Mengqiang (Mark) Zhao Assistant Professor Otto H. York Department of Chemical and Materials Engineering Website: https://people.njit.edu/faculty/mz24	Low-Dimensional Materials for Electronics and Biosensors	1-2
5	Tsinghua University, Beijing, China	Prof. Bryan Wei Associate Professor School of Life Science Website: https://life.tsinghua.edu.cn/lifeen/info/1034/1078.htm	DNA origami, DNA nanotechnology and its applications in materials science and life sciences	1-2
6	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
7	Stanford University, USA	Prof. Tulio A Valdez Professor of Otolaryngology School of Medicine	Optical imaging, biomedical imaging	1-2



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8	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
9	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
10	National Cheng Kung University, Taiwan	Prof. Ing-Chao Lin Computer Science and Information Engineering Website: https://caid.csie.ncku.edu.tw/index.php?e=home.professor&lang=en	Computer architecture and electronic design automation	1-2
11	National Tsing Hua University, Taiwan	Prof. Ting-Chi Wang Computer Science Website: http://www.cs.nthu.edu.tw/~tcwang/	Electronic design automation	1-2



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12	Arizona State University, USA	Prof. Krishnendu Chakrabarty Computer and Energy Engineering Website: https://search.asu.edu/profile/4669916	VLSI testing	1-2
13	University of Notre Dame, USA	Prof. Yiyu Shi Computer Science and Engineering Website: https://engineering.nd.edu/faculty/yiyu-shi/	Software/hardware co-design for deep learning acceleration, AI for Health care	1-2
14	National University of Singapore, Singapore	Prof. Yueming Jin Department of Biomedical Engineering and Department of Electrical and Computer Engineering	Fast reconstruction of deformable tissue in surgical scene via neural radiance fields	1
15	University of York, UK	Dr. Jihong Zhu Assistant Professor in Robotics School of Physics, Engineering and Technology Website: https://uyork-robotic-manipulation-lab.github.io/ Faculty Page: https://www.york.ac.uk/physics-engineering-technology/people/zhu/	Learning robotic basketball dribbling from demonstrations	1-2



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16	University of Münster, Germany	Prof. Carsten Schuck Department for Quantum Technology Website: http://www.uni-muenster.de/Physik.PI/Schuck/index.html	Nanophotonics, Quantum photonics	1-2
17	University of Potsdam, Germany	Prof. Dieter Neher Permanent Professor: Soft Matter Physics and Optoelectronics Website https://www.uni-potsdam.de/en/pwm/index	Development of high-performance perovskite, organic, and tandem solar cells processed from solution. Characterization of charge transport and recombination with optoelectronic methods, and numerical simulations. optoelectronic methods, and numerical simulations.	1-2
18	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



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19	National Yang Ming Chiao Tung University, Taiwan	Prof. Chow Chi Wai Full Professor Department of Photonics Website: https://cwchow.lab.nycu.edu.tw/	Optical Wireless Communication (OWC)	1
20	University of Georgia, USA	Prof. Mable Fok Associate Professor School of Electrical and Computer Engineering Website: https://engineering.uga.edu/people/profile/mable-fok-ph.d	Fiber optic sensors for soft robotics	1-2
21	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
22	Aalto University, Finland	Prof. Russell W. F. Lai Assistant Professor Department of Computer Science Website: https://russell-lai.hk/	Cryptography	2



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23	Arizona State University, USA	Prof. Xiangfan Chen School of Manufacturing Systems and Networks Website: https://chenlab.engineering.asu.edu/	3D printing, nanoimprinting and nano-transfer printing	1 – 2
24	The Pennsylvania State University, USA	Prof. Huanyu “Larry” Cheng Department of Materials Science and Engineering Website: https://sites.psu.edu/chenggroup/	Design, fabrication and application of the standalone stretchable device platform	1 – 2
25	Northwestern University, USA	Prof. Ping Guo Department of Mechanical Engineering Website: https://pingguo.mech.northwestern.edu/	Precision engineering, precision manufacturing and intelligent metrology	1 – 2
26	National University of Singapore, Singapore	Prof. Wentao Yan Department of Mechanical Engineering Website: https://blog.nus.edu.sg/yanwt/	Metal additive manufacturing: computational modeling, experimental validation and data analytics	1 – 2



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27	Cornell University, USA	Prof. Lang Tong School of Electrical and Computer Engineering Website: https://www.ece.cornell.edu/faculty-directory/lang-tong	Energy Systems, Information, Networks, Decision Systems	1-2