


Professor Charles K. Kao Research Exchange Scholarship_Reply Slip for 2019

	Institution	Department/Professor Nominated	Topics/Areas of the Research Project	Student Place(s) Available
1	Columbia University	Professor X Edward GUO Director Bone Bioengineering Lab Columbia University Website: https://bme.columbia.edu/x-edward-guo	Bone biomechanics, mechanobiology of bone, imaging analysis of bone microstructure, biomechanics of bone cells, micro-patterning of cells	1-2
2	Columbia University	Professor Helen H LU Director Biomaterial & Interface Tissue Engineering Lab Columbia University Website: http://orion.bme.columbia.edu/lulab/	Mechanism of Cell-Biomaterial Interactions	1-2
3	University of California at San Diego	Professor Peter Yingxiao WANG Professor Department of Bioengineering University of California at San Diego Website: http://wang.ucsd.edu/	Molecular engineering for live cell imaging, reprogramming of cellular functions in immunotherapy	1-2
4	University of Illinois at Urbana-Champaign	Professor Yih-Kuen JAN, Associate Professor Director, Rehabilitation Engineering Lab Website: http://kch.illinois.edu/jan	Rehabilitation Engineering and Biomechanics	1-2



	Institution	Department/Professor Nominated	Topics/Areas of the Research Project	Student Place(s) Available
5	University of Texas at Austin	Professor Tim Hsin-Chih YEH Associate Professor Department of Biomedical Engineering University of Texas at Austin Website: http://research.engr.utexas.edu/yeh/	Metabolic imaging of tumor organoids, Measuring hybridization kinetics in live cells, 3D tracking of receptors in cancer tissues	1-2
6	National University of Singapore	Professor Raye YEOW Department of Biomedical Engineering National University of Singapore Website: http://bioeng.nus.edu.sg/eilab/ https://www.youtube.com/user/theeiLab/videos	Soft Social Robots for Hospitals	1-2
7	Nanyang Technological University, Singapore	Professor Yi ZHANG School of Mechanical and Aerospace Engineering Nanyang Technological University Website: https://www.yizlab.com/	Microfluidics, point-of-care diagnostics, biophotonics, 3D printing, optofluidics	1-2
8	Nanyang Technological University	Professor Changjin HUANG Assistant Professor School of Mechanical & Aerospace Engineering Nanyang Technological University Website: http://research.ntu.edu.sg/expertise/academicprofile/Pages/StaffProfile.aspx?ST_EMAILID=CJHUANG&CategoryDescription=BiomedicalSciencesLifeSciences	Mechanobiology, soft materials, mechanics of mammalian cells and plant tissues	1-2



	Institution	Department/Professor Nominated	Topics/Areas of the Research Project	Student Place(s) Available
9	Technika University of Gdańsk, Poland	Professor Małgorzata Jędrzejewska- Szczerska Associate Professor Department of Metrology and Optoelectronics Technika University of Gdańsk Website: https://pg.edu.pl/30c9e61c56_malgorzata.jedrzejewska-szczerska/	Fiber optic sensors	1-2
10	University of Georgia USA	Professor Mable Fok School of Electrical and Computer Engineering, College of Engineering Website: http://wave.engr.uga.edu/mfok/index.html	Dynamic microwave photonics systems, biomedical and robotic sensors, biomimetic photonics	2
11	Universidad Politécnica de Valencia, Spain	Professor Vicente E. Boria-Esbert Dpto. Comunicaciones, ETSI Telecomunicación Website: http://www.upv.es/contenidos/MSCTELEC/info/869390normalc.html	RF/Microwave Engineering	2
12	University of Central Florida, USA	Professor Xun Gong Department of Electrical and Computer Engineering Website: http://www.cecs.ucf.edu/faculty/xun-gong/	Microwave passive components and filters, sensors, antennas and arrays, flexible electronics, and packaging.	2



	Institution	Department/Professor Nominated	Topics/Areas of the Research Project	Student Place(s) Available
13	University of Victoria, Canada	Professor Jens Bornemann Department of Electrical and Computer Engineering Website: http://www.ece.uvic.ca/~jbornema/	RF/Microwave Engineering	2
14	Polytechnique Montréal, Canada	Professor Ke Wu Department of Electrical Engineering Website: https://www.polymtl.ca/expertises/en/wu-ke	RF/Microwave Engineering Photonic devices and networks Wireless communication systems	2
15	ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE	Professor Martin Jaggi Assistant Professor Machine Learning and Optimization Laboratory Website: https://people.epfl.ch/martin.jaggi	either distributed ML or NLP Details: https://mlo.epfl.ch/page-135359-en-html/	1
16	Carnegie Mellon University, U.S.A.	Professor Pulkit Grover Assistant Professor Electrical and Computer Engineering Carnegie Mellon University Website https://www.ece.cmu.edu/directory/department/faculty/G/Pulkit_Grover_7070.html	1. novel brain machine interfaces 2. machine learning and/or instrumentation and/or experiments 3. reliable distributed computing 4. fundamental limits on neural interfacing 5. novel neural interfaces	1-2



	Institution	Department/Professor Nominated	Topics/Areas of the Research Project	Student Place(s) Available
17	Massachusetts Institute of Technology	Professor Dina Katabi Computer Science & Artificial Intelligence Lab Website: https://www.csail.mit.edu/person/dina-katabi	1. Deep learning models for sleep and apnea monitoring using wireless signals Details: https://people.csail.mit.edu/mingmin/papers/rfsl-eeep-paper.pdf 2. Deep Learning Models for Tracking People through Walls and Occlusions Details: https://people.csail.mit.edu/mingmin/papers/rfp-ose-cvpr-zhao.pdf	1-2
18	Georgia Institute of Technology, U.S.A	Prof. Matthieu Bloch Assistant Professor School of Electrical and Computer Engineering Georgia Institute of Technology http://users.ece.gatech.edu/mbloch/	explore things at the intersection of communication, networks, and machine learning	1-2

- Applicants are required to indicate your priority choices of preference of potential hosts in the application form by 09 Nov, 2018.
- This compiled list displays all potential hosts as of January 2018. If and when new information is received, this list will be updated on Faculty website.