Professor Charles K. Kao Research Exchange Scholarship_Reply Slip for 2019

<table>
<thead>
<tr>
<th>Institution</th>
<th>Department/Professor Nominated</th>
<th>Topics/Areas of the Research Project</th>
<th>Student Place(s) Available</th>
</tr>
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<tbody>
<tr>
<td>1 Columbia University</td>
<td>Professor X Edward GUO DirectorBone Bioengineering Lab Columbia UniversityWebsite: <a href="https://bme.columbia.edu/x-edward-guo">https://bme.columbia.edu/x-edward-guo</a></td>
<td>Bone biomechanics, mechanobiology of bone, imaging analysis of bone microstructure, biomechanics of bone cells, micro-patterning of cells</td>
<td>1-2</td>
</tr>
<tr>
<td>2 Columbia University</td>
<td>Professor Helen H LU DirectorBiomaterial &amp; Interface Tissue Engineering Lab Columbia UniversityWebsite: <a href="http://orion.bme.columbia.edu/lulab/">http://orion.bme.columbia.edu/lulab/</a></td>
<td>Mechanism of Cell-Biomaterial Interactions</td>
<td>1-2</td>
</tr>
<tr>
<td>3 University of California at San Diego</td>
<td>Professor Peter Yingxiao WANG ProfessorDepartment of BioengineeringUniversity of California at San DiegoWebsite: <a href="http://wang.ucsd.edu/">http://wang.ucsd.edu/</a></td>
<td>Molecular engineering for live cell imaging, reprogramming of cellular functions in immunotherapy</td>
<td>1-2</td>
</tr>
<tr>
<td>4 University of Illinois at Urbana-Champaign</td>
<td>Professor Yih-Kuen JAN, Associate ProfessorDirector, Rehabilitation Engineering LabWebsite: <a href="http://kch.illinois.edu/jan">http://kch.illinois.edu/jan</a></td>
<td>Rehabilitation Engineering and Biomechanics</td>
<td>1-2</td>
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| 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/](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/](http://bioeng.nus.edu.sg/eilab/)  
[https://www.youtube.com/user/theeiLab/videos](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/](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_EMAIL_ID=CJHUANG&CategoryDescription=BiomedicalSciencesLifeSciences](http://research.ntu.edu.sg/expertise/academicprofile/Pages/StaffProfile.aspx?ST_EMAIL_ID=CJHUANG&CategoryDescription=BiomedicalSciencesLifeSciences) | Mechanobiology, soft materials, mechanics of mammalian cells and plant tissues | 1-2                         |
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<tr>
<td>9 Technika University of Gdańsk, Poland</td>
<td>Professor Małgorzata Jędrzejewska- Szczerska Associate Professor Department of Metrology and Optoelectronics Technika University of Gdańsk Website: <a href="https://pg.edu.pl/30c9e61c56_malgorzata.jedrzejewska-szczerska/">https://pg.edu.pl/30c9e61c56_malgorzata.jedrzejewska-szczerska/</a></td>
<td>Fiber optic sensors</td>
<td>1-2</td>
</tr>
<tr>
<td>10 University of Georgia USA</td>
<td>Professor Mable Fok School of Electrical and Computer Engineering, College of Engineering Website: <a href="http://wave.engr.uga.edu/mfok/index.html">http://wave.engr.uga.edu/mfok/index.html</a></td>
<td>Dynamic microwave photonics systems, biomedical and robotic sensors, biomimetic photonics</td>
<td>2</td>
</tr>
<tr>
<td>11 Universidad Politécnica de Valencia, Spain</td>
<td>Professor Vicente E. Boria-Esbert Dpto. Comunicaciones, ETSI Telecomunicación Website: <a href="http://www.upv.es/contenidos/MSCTELEC/info/869390normalc.html">http://www.upv.es/contenidos/MSCTELEC/info/869390normalc.html</a></td>
<td>RF/Microwave Engineering</td>
<td>2</td>
</tr>
<tr>
<td>12 University of Central Florida, USA</td>
<td>Professor Xun Gong Department of Electrical and Computer Engineering Website: <a href="http://www.cecs.ucf.edu/faculty/xun-gong/">http://www.cecs.ucf.edu/faculty/xun-gong/</a></td>
<td>Microwave passive components and filters, sensors, antennas and arrays, flexible electronics, and packaging.</td>
<td>2</td>
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| 13 University of Victoria, Canada         | Professor Jens Bornemann  
Department of Electrical and Computer Engineering  
Website: [http://www.ece.uvic.ca/~jbornema/](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](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](https://people.epfl.ch/martin.jaggi) | either distributed ML or NLP  
Details: [https://mlo.epfl.ch/page-135359-en.html](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](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                          |

AS AT 2018.10.24
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| 17 Massachusetts Institute of Technology | Professor Dina Katabi  
Computer Science & Artificial Intelligence Lab  
Website: [https://www.csail.mit.edu/person/dina-katabi](https://www.csail.mit.edu/person/dina-katabi) | 1. Deep learning models for sleep and apnea monitoring using wireless signals  
2. Deep Learning Models for Tracking People through Walls and Occlusions  
| 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/](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.