

Prof. Peter Burke Bio-nanotechnology group



Peter John Burke
Electrical Engineering & Computer
Science
(949) 824-9326
pburke@uci.edu

Research Group Members

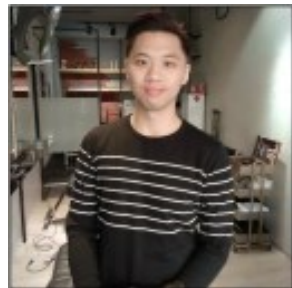
Zahra Nemati
(PhD Materials Science &
Engineering)



Dandan Ren
(PhD Electrical Engineering)



Chia-Hung Lee
(PhD Biomedical Engineering)



Projects we are working on in the upcoming year

Project/research summary

- Broadband scanning microwave microscopy of cells and organisms.
- Nano-radar imaging of cells/mitochondria during all phases of the cell life cycle.
- 3D printed microfluidic device for mitochondria isolation

Possible areas of collaboration with other groups

- AFM/SMM in liquid
- Bio: PCR, cloning, cell culture, and expression
- Eukaryotic Cell immobilization for AFM application