



# THE UNIVERSITY of EDINBURGH

## School of Engineering

### IMP seminar

12:30-13:30 on 28<sup>th</sup> Feb

NUC\_B.01 ALDER THEATRE

Multiscale Biofabrication: 3D(bio)printing, bioassembly, and fibre-of-things  
Prof. Yan Yan Shery Huang

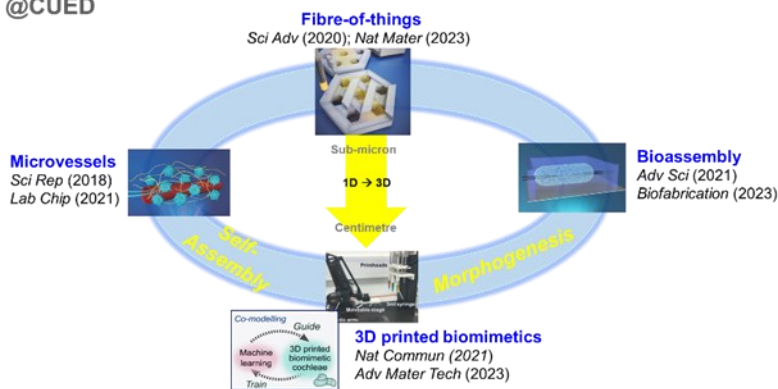


### ABSTRACT

This presentation will illustrate my group’s research work on three themes (i) organoid and tumoroid bioassembly; (ii) 3D printing of soft and biological materials; and (iii) fibre biofabrication for wearable sensors and bioelectronics. Enabled by these technological developments, I will show how fit-for-purpose design of 3D printed biomimetic models, when coupled with machine learning, can provide new ways of cost-effective and ethical clinical informatics. I will also discuss an outlook on how multiscale biofabrication can be harnessed to create more physiologically complete in vitro models, and to make sustainable and imperceptible bioelectronic interfaces for living systems.

Biointerface  
@CUED

### Multiscale biofabrication



### SPEAKER

**Prof. Yan Yan Shery Huang** is Professor of Bioengineering, leading the Biointerface Group at Department of Engineering, University of Cambridge, UK; Associate Editor of ACS Applied Materials & Interfaces, and Bio-Design and Manufacturing. Shery completed her MEng degree in Materials Science and Engineering from Imperial College London, and PhD degree in Physics (Biological & Soft Systems) from University of Cambridge, UK.