

**DEPARTMENT OF MECHANICAL ENGINEERING****SEMINAR****Online**

**Title:** 3D Printed Surface with Controlled Wettability

**Speaker:** Mr. Hengjia Zhu (PhD candidate)  
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**Date:** 21 April, 2022 (Thursday)

**Time:** 1:00 p.m. (Hong Kong Time)

**Zoom meeting:** 1) Link to join the meeting:

<https://hku.zoom.us/j/93197705352?pwd=ZHV6UE50VnUwMHRqUkpjSE0rbnZoUT09>

2) Meeting ID: 931 9770 5352

3) Password: 799399

**Abstract:**

3D Printing has attracted increasing attention in many disciplines due to its versatility in structure construction. Extrusion-based methods and light-based methods enabled fabrication of complex bioinspired and biomimetic structures for controlled surface wettability. Despite the complicated morphology of those structures, the wetting phenomena can be explained by Cassie-Baxter state and Wenzel state. Understanding geometric parameters' influence on Cassie-Baxter and Wenzel state transition helps studying wetting phenomena in nature and inspires more advanced designs. In this seminar, relative theories and recent advances in 3D printed biomimetic surfaces will be discussed.

**ALL INTERESTED ARE WELCOME**

For further information, please contact Prof. L.Q. Wang at 3917 7908.

**Research area: Thermofluids**