

Research Workshop

Flexible Design of Acoustic Metasurfaces

Research Centre for Green Energy, Transport and Building (RCGETB)

Date: 5 December 2023 (Tuesday)

Time: 2:30 pm - 3:30 pm

Venue: Online (MS Teams)



Dr Junot LIANG

Lecturer

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Biography

Dr Junot Liang obtained his BSc degree and MPhil degree in Mechanical Engineering from Harbin Engineering University in 2014 and 2016, respectively. In 2016, he embarked on his Ph.D. studies in Acoustic Metamaterials culminating in the successful attainment of Ph.D. in 2020. In 2019, Dr Liang was a visiting scholar at North Carolina State University for three months. In the same year, he joined the College of Professional and Continuing Education. Dr Liang's research lies in metamaterial noise control. He has published papers in top physics journals, such as *Physical Review Letters*, and has presented at international conferences, including ICSV and Internoise.

Abstract

Acoustic metasurfaces have been a hot topic over the past years due to their new physics and application potentials in wave control. It brings an extra phase profile and realises nearly arbitrary phase control of incident waves. With impedance matching techniques, such as gradient effective medium, one can enhance the energy efficiency across a broad bandwidth. The acoustic lab at PolyU CPCE has been exploring the utilisation of acoustic metasurface in wavefront modulation and noise control. A series of flexible metasurfaces has been designed and experimentally investigated.

All are welcome!
Register Now!



Kindly make the reservation at: <https://forms.office.com/r/uGPbznj5em>

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