



## AEROSPACE ENGINEERING SCIENCES

En ia



Postdoctoral Researcher, Department of Mechanical and Process Engineering  
ETH Zurich

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Architected materials have the ability to manipulate and control stress wave propagation, which is essential for enhanced vibration mitigation, sound attenuation, and impact absorption properties. Recent research has relied on two mechanisms for engineering band gaps to forbid certain frequencies from propagating through a material: (1) phononic crystals