

## Tiled skeletons, shiny scales and toothy filters: Structure-function relationships in shark and ray tissues

<b>Date</b>	<b>19 April (Fri.)</b>
<b>Time</b>	<b>16:00 (UTC+8)</b>
<b>Venue</b>	<b>3N-01 &amp; Zoom</b>



You can also email us to require the Zoom link  
(check SBS website → NEWS & EVENTS)

Humans are drawn to patterns and hierarchies in Nature, copying them in decoration and architecture (mosaic, roofs, walls). Natural patterns, however, are rarely only aesthetic and, since evolution works to optimize a variety of factors at once, natural structural systems are always multi-functional. In our group, we combine biology, engineering and design approaches to explore ‘form-function’ relationships in biological materials, from tissue- to organismal levels. Our results frame form-function spaces for understanding growth and mechanics in natural tissues, while offering inspiration and structural templates for multi-functional, biomimicked composite materials.

**All are welcome!**



**Dr. Mason Dean** is currently an Associate Professor at CityU in Hong Kong, studying skeletal development, structure and function in vertebrate animals. He is also a Guest Scientist at the Max Planck Institute of Colloids and Interfaces and an Associate Investigator in the Humboldt University’s Excellence Cluster ‘Matters of Activity’.