

JCC RESEARCH SEMINAR

TOPIC

How fishes save energy: exploring biomechanical and physiological performance of locomotion

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HONG KONG TIME

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Online Via ZOOM

ABSTRACT

Swimming ability has contributed to the evolutionary success of fishes, and its mechanics have been studied extensively across groups. Fishes exhibit an astounding diversity of locomotor behaviours, from classic swimming with their body and fins to jumping, flying, walking, and collective behaviours such as schooling. During my talk, I will discuss how fish can increase locomotor efficiency during solitary and collective swimming across a range of speeds.

SPEAKER'S BIOGRAPHY



Valentina is Assistant Professor of Functional Morphology at Stockholm University where she investigates energetics and biomechanics of fish locomotion. She was a Postdoctoral Fellow at Harvard University (2014-2019) where she studied biomechanics of swimming and collaborated to construct bio-inspired robotic platforms. Her PhD work at Boston University (2009-2014) focused on the effect of ocean acidification and warming on energetics, development and escape performance in locally adapted skate populations.

More info is available at www.valentinadisanto.com