



STEM PATHWAYS

FALL 2022 SEMINAR SERIES



Samuel Oliveira, PhD

Microfluidic Devices for Studying Programmable Microbial Communities

Work in the Oliveira lab focuses on engineering microfluidic, microscopy-based automation platforms to increase the throughput and reproducibility of temporal dynamic microbial studies. The lab also aims to engineer multi-layer microfluidic devices with controllable settings for growing and maintaining interspecies communication and safeguarding communities from varying environmental contexts.



WHEN:

Friday, November 18, 2022
11 - 12 PM

WHERE:

6th Floor Conference Room (CILSE 609)

ABOUT OUR SPEAKER:

Dr. Samuel Oliveira obtained his Ph.D. in Computational Biology from Tampere University (Finland) in January 2019. Currently, he is a Research Assistant Professor and the PI of the Oliveira Lab, a recent research group at Boston University that focuses on reprogramming synthetic microbial communities to work as cell-based biosensors to monitor contaminants in natural environments. In this seminar, you will learn the aspects of Sam's research at BU to improve their ability to predict the design of programmable functions in microbial species and the most recent advances to increase the throughput of experiments screening synthetic community candidates.

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