

# CARNEGIE MELLON UNIVERSITY

## BME 2022 SPRING SEMINAR SERIES

### Biomedical Device Development for Gastrointestinal Applications



#### PRESENTED BY

##### **Giovanni Traverso**

Assistant Professor  
Department of MechE, MIT  
Assistant Professor of Medicine  
Division of Gastroenterology, Brigham  
and Women's Hospital  
Harvard Medical School

#### SCHEDULE

**HOA 160**

**Thursday,  
March 24, 2022  
(10:15AM-11:15AM)**

Medication non-adherence (non-compliance) represents a major barrier to effective clinical care. In developed nations, only 50% of patients take their medications as prescribed, manifesting in more than \$100 billion in avoidable hospitalizations every year in the United States alone and the numbers are far worse in the developing world. In his seminar, Prof. Traverso will present a series of novel technologies being developed with the goal to enhance and facilitate medication administration. Specifically, Prof. Traverso will discuss the development of new technologies for the delivery of a broad set of drugs including macromolecules through the oral route.

