

**Guest Speaker: Dr. Gerardo Chowell**School of Public Health,  
Georgia State University

## **Tackling the COVID-19 pandemic using mathematical & statistical modeling tools**

### **Abstract:**

The devastating COVID-19 pandemic represents an unprecedented opportunity to test and apply mathematical and statistical modeling approaches to infer key epidemiological and transmission characteristics of the novel coronavirus as well as evaluate the performance of different theoretical models for forecasting the trajectory of the pandemic at various spatial scales. In this context, I will present results from multiple ongoing collaborations involving interdisciplinary quantitative scientists, doctoral students, and public health officials.

### **About the speaker:**

Dr. Gerardo Chowell is professor of mathematical epidemiology in the department of Population Health Sciences in the School of Public Health at Georgia State University. He also holds an external affiliation as a Senior Research Fellow at the Division of International Epidemiology and Population Studies at the Fogarty International Center, National Institutes of Health.

Before joining Georgia State, Dr. Chowell was an associate professor in the School of Human Evolution and Social Change at Arizona State University.

Dr. Chowell is a member of the editorial boards of BMC Medicine, BMC Infectious Diseases, Epidemics, Mathematical Biosciences and Engineering, Infectious Disease Modeling, Scientific Reports, and PLOS One.

**Date: Monday, December 14, 2020**

**Time: 2:00 – 3:00 PM CST**

**Zoom link: <https://utrgv.zoom.us/j/9082139008>**