

Oct. 2, 2020 - 2 pm - Virtual Seminar

A circular logo with a white hibiscus flower in the center, surrounded by colorful segments in shades of purple, blue, and orange.

# HAWAI'I DATA SCIENCE DATA SCIENCE FRIDAYS

## COVID-19 Pandemic Data Analysis and Forecasting for Hawai'i Counties



### DR. ALBERT KIM

**Bio:** Dr. Albert Kim is a Professor of Civil and Environmental Engineering at University of Hawai'i at Mānoa with areas of research interest that include Environmental Soft Matter Physics: Theory and Simulations, Computational Environmental Engineering, Member Separation Processes, and Hydrodynamics of Colloids and Nanoparticles. Dr. Kim received a Ph.D. in Civil and Environmental Engineering from the University of California, Los Angeles in 2000, serves on the Editorial Advisory Board for Recent Patents in Chemical Engineering and is a recipient of the University of Hawai'i Regent's Medal for Excellence in Teaching.

**Abstract:** In December 2019, Chinese health authorities had closely monitored the cluster of pneumonia caused by the "severe acute respiratory syndrome–coronavirus 2" (SARS-CoV-2) and treated the patient cluster. After the first death on January 11, 2020, as of September 24, 2020, the number of cumulative confirmed cases of coronavirus disease 2019 (COVID-19) exceeded 32M globally, the 6.97M U.S., and 112 in Hawai'i state.

Passing 2020 summer, the state of Hawaii experiences drastic increases in both the confirmed cases and deaths. However, forecasting and modeling of COVID-19 trends turned out to be challenging for various reasons. This study provides a summary and comparative analysis of the pandemic progress in Hawai'i state from January to September 2020 to better understand the COVID-19 past and future. Our modeling study was conducted under the 2020 summer program of the Native Hawaiian Science and Engineering Mentorship Program (NHSEMP) and is currently on-going.

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