

Modeling and Quantitative Science Responses to Covid-19



Thursday, May 21, 2020
1:00–4:00 PM
Virtual Dean's Workshop

PLEASE CLICK TO JOIN WORKSHOP IN ZOOM

The link will not be available until Thursday at 12:30 PM

We are hosting a series of virtual Dean's Workshops to enhance communication, share data, and work collaboratively as a global community to focus our responses to the COVID-19 pandemic. For this workshop, we concentrate on modeling and quantitative science to illuminate trends, evaluate the effectiveness of interventions, and guide decisions for responses to the pandemic. Faculty from the Schools of Medicine, Nursing, Engineering and Applied Science, Management, Public Health, and Yale Institute for Global Health will highlight efforts to address the COVID-19 pandemic. All of us have much to contribute and we can employ our existing strengths and the creativity of our community in this new situation to address the current pandemic and strengthen our connections and shared endeavors going forward.

CME CREDIT

Yale School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Yale School of Medicine designates this live activity for a maximum of 4 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

DEAN'S WORKSHOP INFO

Contact beth.pranger@yale.edu

Program Details medicine.yale.edu/workshops

Sponsored by the Office of the Dean, Yale School of Medicine. We would like to acknowledge the collaboration with YNHHS and with Nelson Delgado.



Introduction, 1:00 PM

Nancy J. Brown, MD

Jean and David W. Wallace Dean of the Yale School of Medicine and C.N.H. Long Professor of Internal Medicine

Interdisciplinary Quantitative Research on COVID-19, 1:05 PM

Saad Omer, MBBS, MPH, PhD

Director, Yale Institute for Global Health, Associate Dean (Global Health Research), Professor of Medicine (Infectious Diseases)

The Impact of Changes in Testing Practices on Estimates of COVID-19 Transmission, 1:30 PM

Virginia Pitzer, ScD

Associate Professor of Epidemiology (Microbial Diseases)

Estimating the Early Death Toll of COVID-19 in the U.S., 1:50 PM

Daniel Weinberger, PhD

Associate Professor of Epidemiology (Microbial Diseases)

Real-Time Big Data Forecasting of the COVID-19 Outbreak, 2:10 PM

Nicholas A. Christakis, MD, PhD, MPH

Sterling Professor of Sociology and Professor in the Institute for Social and Policy Studies, of Biomedical Engineering, of Ecology and Evolutionary Biology and of Medicine (General Medicine)

5 MINUTE BREAK

Adapting a Machine Learning Algorithm to Track Symptoms of COVID-19, 2:35 PM

Julie Womack, PhD, CNM, FNP (BC)

Associate Professor of Nursing

Visual Model of COVID-19 Transmission in Correctional Facilities, 2:50 PM

Emily Wang, MD, MA

Associate Professor of Medicine (General Medicine); Co-Director, Center for Research Engagement, Internal Medicine

Supporting COVID-19 Hospital Planning and State Reopening Using Model Projections, 3:10 PM

Forrest W. Crawford, PhD

Associate Professor of Biostatistics, of Ecology and Evolutionary Biology, of Management, and of Statistics and Data Science

COVID-19 Scratch Models to Support Local Decisions: A Public Health Modeling Adventure, 3:30 PM

Edward H. Kaplan, SM, MCP, PhD, NAM, NAE

William N. and Marie A. Beach Professor of Operations Research, Professor of Public Health, and of Engineering

Closing Remarks and Future Directions, 3:50 PM

Nancy J. Brown, MD