

# SMSS Colloquium Distinguished Speaker: Dr. Xihong Lin

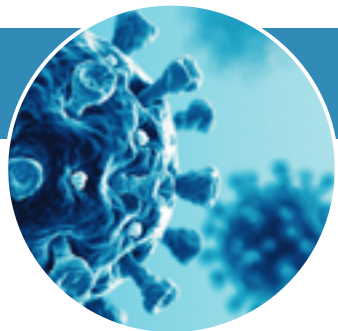


*Department of Biostatistics and Department of Statistics, Harvard University. Associate Member - Broad Institute of MIT and Harvard.*

*Coordinating Director of the Program in Quantitative Genomics at the Harvard T. H. Chan School of Public Health.*

*Elected member of the National Academy of Medicine. Fellow of: American Statistical Association (ASA), Institute of Mathematical Statistics, and International Statistical Institute.*

*Past awards include the 2006 Committee of Presidents of Statistical Societies (COPSS) Presidents' Award and the 2017 COPSS FN David Award.*



**March 19, 2021**

**0:00 P.M.**

## **Learning from COVID-19 Data on Transmission, Health Outcomes, Interventions and Vaccination**

- Evaluate the effects of public health interventions on controlling the COVID-19 outbreak, such as social distancing, isolation and quarantine.
- Study the demographic, social-economic, and comorbidity factors that are associated with COVID-19 case and death rates.
- Estimating transmission rates using Transmission regression models as well as factors including intervention effects using test-trace-isolate strategies that affect transmission rates.
- Analysis results of >500,000 participants of the HowWeFeel project, discussing the factors associated with infection, behavior, and vaccine hesitancy.
- Analysis results of 32,000 lab-confirmed COVID-19 cases in Wuhan to estimate the transmission rates using Poisson Partial Differential Equation-based transmission dynamic models.

**This virtual event is open to the public.**

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