Stanford

Gary Qian

Ph.D. Student in Management Science and Engineering, admitted Autumn 2021

Resume available Online

Bio

BIO

I am currently a 2nd year PhD student in Management Science and Engineering at Stanford working with Professor Margaret Brandeau. My research focuses on the development of applied mathematical, economic models, and machine learning models to support health policy decisions. My recent work has been focused on HIV prevention and treatment programs, programs to control US opioid epidemic, and policies for minimizing spread of infectious diseases (including COVID-19).

I am passionate about using optimization theory and machine learning to implement scalable solutions in solving complex, real-world problems including but not limited to applications in healthcare.

Publications

PUBLICATIONS

- **Cost-effectiveness of office-based buprenorphine treatment for opioid use disorder.** *Drug and alcohol dependence*
  Qian, G., Rao, I., Humphreys, K., Owens, D. K., Brandeau, M. L.
  2022; 243: 109762

- **Higher sensitivity monitoring of reactions to COVID-19 vaccination using smartwatches.** *NPJ digital medicine*
  Guan, G., Mofaz, M., Qian, G., Patalon, T., Shmueli, E., Yamin, D., Brandeau, M. L.
  2022; 5 (1): 140

- **Surveillance for endemic infectious disease outbreaks: Adaptive sampling using profile likelihood estimation.** *Statistics in medicine*
  Fairley, M., Rao, I. J., Brandeau, M. L., Qian, G. L., Gonsalves, G. S.
  2022