Stanford



Kate Bubar

Postdoctoral Scholar, Infectious Diseases

Bio

BIO

Kate is a postdoc in the Lo Lab. With a background in applied mathematics, statistics, and infectious disease epidemiology, she is passionate about using data-driven models to better understand infectious disease dynamics with the ultimate goal of informing public health policies and reducing disease burden.

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Colorado Boulder (2024)
- Bachelor of Science, Colorado School of Mines (2019)
- Master of Science, University of Colorado Boulder (2022)

STANFORD ADVISORS

- Nathan Lo, Postdoctoral Faculty Sponsor

LINKS

- Google Scholar: https://scholar.google.com/citations?user=3Xha9ZIAAAAJ&hl=en
- Personal website: https://kbubar.github.io/

Research & Scholarship

LAB AFFILIATIONS

- Nathan Lo, Lo Lab (10/21/2024)

Publications

PUBLICATIONS

- **Epidemiologic shifts predict spatial patterns of measles re-emergence in the United States.** *medRxiv : the preprint server for health sciences*
  Kumar, C. K., Stoffel, L. A., Warren, J. L., Blumberg, S., Schechter, R., Bubar, K. M., Fattah, M., Kiang, M. V., Maldonado, Y., Mordecai, E. A., Hotez, P. J., Lipsitch, M., Lo, et al
  2026
- **Rethinking seasonal COVID-19 vaccination in the endemic era: summer timing, eligibility, and frequency in the United States.** *medRxiv : the preprint server for health sciences*
  Bubar, K. M., Park, H. J., Bents, S. J., Tan, S. T., Singer, B. J., Kelly, J. D., León, T. M., Watt, J., Schechter, R., Lo, N. C.
  2026

- **Trends in County-Level Childhood Vaccination Exemptions in the US.** *JAMA*
  Fattah, M., Stoffel, L. A., Bubar, K. M., Bents, S. J., Maldonado, Y., Hotez, P. J., Kiang, M. V., Lo, N. C.
  2026
- **Modeling Reemergence of Vaccine-Eliminated Infectious Diseases Under Declining Vaccination in the US.** *JAMA*
  Kiang, M. V., Bubar, K. M., Maldonado, Y., Hotez, P. J., Lo, N. C.
  2025
- **SARS-CoV-2 transmission and impacts of unvaccinated-only screening in populations of mixed vaccination status.** *Nature communications*
  Bubar, K. M., Middleton, C. E., Bjorkman, K. K., Parker, R., Larremore, D. B.
  2022; 13 (1): 2777
- **Implications of Test Characteristics and Population Seroprevalence on "Immune Passport" Strategies** *CLINICAL INFECTIOUS DISEASES*
  Larremore, D. B., Bubar, K. M., Grad, Y. H.
  2021; 72 (9): E412-E414
- **Estimating SARS-CoV-2 seroprevalence and epidemiological parameters with uncertainty from serological surveys.** *eLife*
  Larremore, D. B., Fosdick, B. K., Bubar, K. M., Zhang, S., Kissler, S. M., Metcalf, C. J., Buckee, C. O., Grad, Y. H.
  2021; 10
- **Model-informed COVID-19 vaccine prioritization strategies by age and serostatus.** *Science (New York, N.Y.)*
  Bubar, K. M., Reinholt, K., Kissler, S. M., Lipsitch, M., Cobey, S., Grad, Y. H., Larremore, D. B.
  2021; 371 (6532): 916-921
- **Advances in stable isotope tracer methodology part 1: hepatic metabolism via isotopomer analysis and postprandial lipolysis modeling.** *Journal of investigative medicine : the official publication of the American Federation for Clinical Research*
  Diniz Behn, C., Jin, E. S., Bubar, K., Malloy, C., Parks, E. J., Cree-Green, M.
  2020; 68 (1): 3-10
- **Morning Circadian Misalignment Is Associated With Insulin Resistance in Girls With Obesity and Polycystic Ovarian Syndrome.** *The Journal of clinical endocrinology and metabolism*
  Simon, S. L., McWhirter, L., Diniz Behn, C., Bubar, K. M., Kaar, J. L., Pyle, L., Rahat, H., Garcia-Reyes, Y., Carreau, A. M., Wright, K. P., Nadeau, K. J., Cree-Green, M.
  2019; 104 (8): 3525-3534