Stanford

Amna Tariq

Postdoctoral Scholar, Infectious Diseases

Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Robert Shope Award, American Society of Tropical Medicine and Hygiene (September, 2025)
- Seed Grant, Stanford Center for Innovation in Global Health (June 15, 2025)
- NIH Fogarty Fellow, Global Health Emerging Scholars Program (August 28, 2024)
- 2022 PhD Public Health Student Achievement Award, Georgia State University School of Public Health (April 1, 2022)
- Second Century Initiative Fellow, Georgia State University (2018-2022)
- American Association University of Women (AAUW) Fellowship, American Association University of Women (2016-2017)
- Student award for travel for “Scientific Computing meets Machine Learning and Life Sciences”,, Texas University Lubbock (October 2, 2019)
- Student Speaker, Spring 2017 Convocation, Georgia State University, School of Public Health (May 5, 2017)
- National Conference for College Women Student Leaders (NCCWSL) Scholarship, College Women Student Leaders (April 4, 2017)
- Member Alpha Chapter, Delta Omega Society,Georgia State University (2017-present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Global Health Postdoctoral Affiliate, Stanford Center of Global Health Innovation (2023 - present)

PROFESSIONAL EDUCATION

- Bachelor (Undeclared), National University of Sciences and Technology (2015)
- Master of Public Health, Georgia State University (2017)
- BDS, National University of Science and Technology (NUST) , Dental Surgery (2013)
- MPH, Georgia State University, School of Public Health, , Epidemiology (2017)
- Ph.D, Georgia State University School of Public Health , Public Health and Epidemiology (2022)

STANFORD ADVISORS

- Desiree LaBeaud, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Risk factors associated with dengue and chikungunya seroprevalence and seroconversion among urban populations in western and coastal Kenya.** *PLoS neglected tropical diseases*

  Bayrau, B. A., Ichura, C., Tariq, A., Winter, C. A., Amugongo, J. S., Okuta, V. A., Mwambingu, L. W., Ogamba, K. O., Shaita, K. N., Ronga, C. O., Chebii, P., Malumbo, S. L., Godana, et al

  2025; 19 (11): e0013740

- **Modelling the effects of precipitation and temperature on malaria incidence in coastal and western Kenya.** *Malaria journal*

  Tariq, A., Bisanzio, D., Mutuku, F., Ndenga, B., Jembe, Z., Maina, P., Chebii, P., Ronga, C., Okuta, V., LaBeaud, A. D.

  2025; 24 (1): 208

- **Understanding the factors contributing to dengue virus and chikungunya virus seropositivity and seroconversion among children in Kenya.** *PLoS neglected tropical diseases*

  Tariq, A., Khan, A., Mutuku, F., Ndenga, B., Bisanzio, D., Grossi-Soyster, E. N., Jembe, Z., Maina, P., Chebii, P., Ronga, C., Okuta, V., LaBeaud, A. D.

  2024; 18 (11): e0012616

- **SpatialWavePredict: a tutorial-based primer and toolbox for forecasting growth trajectories using the ensemble spatial wave sub-epidemic modeling framework.** *BMC medical research methodology*

  Chowell, G., Tariq, A., Dahal, S., Bleichrodt, A., Luo, R., Hyman, J. M.

  2024; 24 (1): 131

- **SubEpiPredict: A tutorial-based primer and toolbox for fitting and forecasting growth trajectories using the ensemble n-sub-epidemic modeling framework.** *Infectious Disease Modelling*

  Chowell, G., Dahal, S., Bleichrodt, A., Tariq, A., Hyman, J. M., Luo, R.

  2024; 9 (2): 411-436

- **GrowthPredict: A toolbox and tutorial-based primer for fitting and forecasting growth trajectories using phenomenological growth models.** *Scientific reports*

  Chowell, G., Bleichrodt, A., Dahal, S., Tariq, A., Roosa, K., Hyman, J. M., Luo, R.

  2024; 14 (1): 1630

- **Factors Associated with Chikungunya Infection among Pregnant Women in Grenada, West Indies.** *The American journal of tropical medicine and hygiene*

  Kiener, M., Cudjoe, N., Evans, R., Mapp-Alexander, V., Tariq, A., Macpherson, C., Noel, T., Gerardin, P., Waechter, R., LaBeaud, A. D.

  2023

- **A MATLAB toolbox to fit and forecast growth trajectories using phenomenological growth models: Application to epidemic outbreaks.** *Research square*

  Chowell, G., Bleichrodt, A., Dahal, S., Tariq, A., Roosa, K., Hyman, J. M., Luo, R.

  2023