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Area of Expertise

I have been involved with global health and community-based research for more than 10 years, in the areas of spatial epidemiology. As a spatial epidemiologist, using geospatial and informatics tools, I investigate the underlying factors that affect human health, particularly in less wealthy areas which are quite vulnerable to the impacts of environmental variability and change infectious disease epidemiology as it relates to time, space and climate change. In addition, I examine the relationship between climate change and deadly landslides and its impact on public health globally.

Qualifications

MS in Geoinformatics, KTH Royal Institute of Technology
BA in Urban and Rural Planning, Khulna University
PhD in Epidemiology, Nagasaki University

Recent Publications

Community acceptability of dengue fever surveillance using unmanned aerial vehicles: A cross-sectional study in Malaysia, Mexico, and Turkey

Annan, E., Guo, J., Angulo-Molina, A., Yaacob, W. F. W., Aghamohammadi, N., C. Guetterman, T., Yavaşoglu, S. İ., Bardosh, K., Dom, N. C., Zhao, B., Lopez-Lemus, U. A., Khan, L., Nguyen, U. S. D. T. & Haque, U., 1 Sep 2022, In: *Travel Medicine and Infectious Disease*. 49, 102360.

Climate change and its effect on the vulnerability to zoonotic cutaneous leishmaniasis in Iran

Charrahy, Z., Yaghoobi-Ershadi, M. R., Shirzadi, M. R., Akhavan, A. A., Rassi, Y., Hosseini, S. Z., Webb, N. J., Haque, U., Bozorg Omid, F. & Hanafi-Bojd, A. A., May 2022, In: *Transboundary and Emerging Diseases*. 69, 3, p. 1506-1520 15 p.

Determining Perceived Self-Efficacy for Preventing Dengue Fever in Two Climatically Diverse Mexican States: A Cross-Sectional Study

Annan, E., Angulo-molina, A., Yaacob, W. F. W., Kline, N., Lopez-lemus, U. A. & Haque, U., Apr 2022, In: *Behavioral Sciences*. 12, 4, 94.

The disproportionate impact of COVID-19 among undocumented immigrants and racial minorities in the US

Bhuiyan, M. T. H., Khan, I. M., Jony, S. S. R., Robinson, R., Nguyen, U. S. D. T., Keellings, D., Rahman, M. S. & Haque, U., 1 Dec 2021, In: *International Journal of Environmental Research and Public Health*. 18, 23, 12708.

Mapping the spatial distribution of the dengue vector *Aedes aegypti* and predicting its abundance in northeastern Thailand using machine-learning approach

Rahman, M. S., Pientong, C., Zafar, S., Ekalaksananan, T., Paul, R. E., Haque, U., Rocklöv, J. & Overgaard, H. J., Dec 2021, In: *One Health*. 13, 100358.

Near-term climate change impacts on sub-national malaria transmission

Lubinda, J., Haque, U., Bi, Y., Hamainza, B. & Moore, A. J., Dec 2021, In: *Scientific Reports*. 11, 1, 751.

Prediction of dengue outbreak in Selangor Malaysia using machine learning techniques

Salim, N. A. M., Wah, Y. B., Reeves, C., Smith, M., Yaacob, W. F. W., Mudin, R. N., Dapari, R., Sapri, N. N. F. F. & Haque, U., Dec 2021, In: *Scientific Reports*. 11, 1, 939.

COVID-19 vaccine hesitancy and emerging variants: Evidence from six countries

Mangla, S., Zohra Makkia, F. T., Pathak, A. K., Robinson, R., Sultana, N., Koonisetty, K. S., Karamehic-Muratovic, A., Nguyen, U. S. D. T., Rodriguez-Morales, A. J., Sanchez-Duque, J. A., Zamba, P. T., Aghamohammadi, N., Cs, F. &

Haque, U., Nov 2021, In: Behavioral Sciences. 11, 11, 148.

Appraising the historical and projected spatiotemporal changes in the heat index in Bangladesh

Rahman, M. B., Salam, R., Islam, A. R. M. T., Tasnuva, A., Haque, U., Shahid, S., Hu, Z. & Mallick, J., Oct 2021, In: Theoretical and Applied Climatology. 146, 1-2, p. 125-138 14 p.

Short-term forecasting of the COVID-19 outbreak in India

Mangla, S., Pathak, A. K., Arshad, M. & Haque, U., 1 Sep 2021, In: International Health. 13, 5, p. 410-420 11 p.