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Preventive Medicine and Biostatistics
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Research interests

Med-Health and Disease ecologist and a former U.S. Navy entomologist. My research focuses on latitudinal and seasonal health care systems and disease ecology across climate and landscape changes. I build risk models using data science and field collected data to demonstrate the phylo-geographic mosaic of diseases, environmental and public health hazards to support force health protection in deployed environments and U.S. military bases. I integrate AI and machine learning techniques encompassing Remote Sensing (RS) indicators for future prediction of health risks due to landscape-climate changes and socio-economic factors. I develop, with my collaborators, user-friendly platforms for disease-risk mapping and arthropod identification using AI.

Qualifications

Remote Sensing and Disease Ecology, PhD, Spatial characteristics of mosquito breeding habitats in Jazan Region, Saudi Arabia, using Geographic Information System technology, King Saud University
15 Sep 2010 → 12 Dec 2013
Award Date: 12 Dec 2013

Medical and Veterinary Entomology, Master, Effectiveness of polystyrene beads for the control of the filarial vector Culex pipiens L., Ain Shams University
1 Mar 2007 → 24 Mar 2008
Award Date: 24 Mar 2008

Employment

Preventive Medicine and Biostatistics

Uniformed Services University of the Health Sciences

14 May 2021 → present