**TOPIC OF THE WEBINAR:**

## APPLIED GEOTECHNOLOGIES FOR WATERBORNE DISEASE STUDIES IN BRAZIL

The human-health is constantly influenced by sociodemographic and environmental parameters. The applicability of geo-technologies into healthcare problems is a great alternative for determining risk sites - areas that are deemed of higher vulnerability. This presentation shows the use of geo-technologies (smart phones, GNSS, GIS, Remote Sensing, etc.) applied to the study of waterborne diseases, focusing mainly on Brazilian study cases, though applicable anywhere else. The presentation is divided into the following topics: databased definitions and usage (primary and secondary data); georeferencing/geocoding approaches; sociodemographic, environmental and remote sensing variables acquisition (vector and matrix data types); socio-epidemiological profiling; regression analysis; spatial and temporal analysis (spatial distribution, kernel, buffer, scan, kriging, risk, models, etc.).

**WEBINAR SERIES ON WATER RELATED DISEASES, THEIR LINKS TO ENVIRONMENTAL QUALITY, MONITORING METHODS AND SOLUTIONS**

## About the SPEAKER

Graduated in Biological Sciences from the University of Taubaté (1994), Master in Remote Sensing from the National Institute for Space Research (2000), and Ph.D. in Biomedicine from the Teaching and Research Institute of Santa Casa de Belo Horizonte (2010). He is currently a Full Technologist (Research and Biomedical Research in Public Health) and Responsible for the Geoprocessing Laboratory at Instituto Evandro Chagas, Ministry of Health of Brazil; also, he is a permanent professor of the Graduation Program in Epidemiology and Health Surveillance from the Instituto Evandro Chagas; a collaborating professor at the Postgraduate Program in Animal Health in the Amazon from the Federal University of Pará and a collaborating professor at the Postgraduate Program in Environmental Geoprocessing from the Federal Institute of Rondônia, Campus Colorado do Oeste. He has experience in the field of Geosciences, with an emphasis on Geotechnologies, Remote Sensing, Geographic Information Systems, Spatial Epidemiology, Public Health. His professional activities mainly involve thefollowing topics: geoprocessing in health and the environment, mobile geotechnology, spatial analysis and geostatistics.

***Ricardo José de Paula Souza e Guimarães***
http://lattes.cnpq.br/4082971128842907
https://orcid.org/0000-0002-5767-4765

SPEAKER:

***Ph.D. Ricardo José de Paula Souza e Guimarães***
***Instituto Evandro Chagas, Ministry of Health of Brazil***

Join us for the third webinar of ONWARD webinar series on water related diseases on **THURSDAY, 15TH JULY 2021 AT 1400 hrs GMT**