ACTION GATIMON Workshop Series 2019 - 20 INDIAN Spatial Analysis using R and GeoDa INSTITUTE OF November 13 – 15, 2019 (Wednesday – Friday) PUBLIC HEALTH (Last date of registration: October 30, 2019) DELHI Course Director: Prof. Sanjay Zodpey, Director Course Coordinator: Dr. Ranjana Singh, Associate Professor and Ms. Nilima, Senior Lecturer **Training Venue:** Indian Institute of Public Health- Delhi Public Health Foundation of India Plot 47, Sector 44, Institutional area, Near HUDA City Centre metro station, Gurgaon-122002, Haryana, India Key Contact person: Ms. Tanuja Bhandari, Assistant Manager – Program (Trainings) Email: trainings@iiphd.org Ph: +91 124 4722900 (Extn. 4110) About the workshop Contents Spatial analysis includes techniques to study entities using their Getting familiarized to R and GeoDa ٠ geographic properties. Spatial epidemiology assists in understanding the About R and GeoDa pattern and determinants of the condition of concern. Identification of R packages for spatial analysis clusters by mapping the spread is important to plan for control strategies ٠ Introduction to spatial data and prioritise the allocation of resources to the areas requiring attention. Geographic Information System o What is a shapefile? This workshop focuses at the application of spatial statistics in health • Types of Spatial Data – Point and Areal sciences. Any health sciences researcher with elementary knowledge of Spatial data statistics can attend this workshop. Import- Data and shapefile By the end of this workshop, the participants will be able to plot and Merge shapefile with the data identify the vulnerable locations, analyse and interpret the spatial data Visualization of spatial data for improved decision making. Basic plotting of observations Creating subsets and plot **Registration Fee** Exploring spatial data Indian National: 7500 INR per participant Foreign National: 15000 INR per participant Detecting overall clustering using Moran's I o Detection of local clusters using Local Indicators of The registration fee includes course kit, lunch and snacks. Please note Spatial Association (LISA) that the participants will have to bear their own travel, boarding and Introduction to other global and local spatial measures lodging expenses. However, the organizers will be able to provide a list Spatial Regression of hotels or guesthouses nearby the institute upon request. Spatial Lag model About the faculty Spatial Error mode Dr. Ranjana Singh is a full-time faculty at the institute with formal training in Statistics, Population studies and Biostatistics. She has around Who should attend? 10 years of experience in the field of health research and applied This workshop is ideal for public health and medical statistics. Dr Singh is extensively involved in teaching in all in-house and researchers including medical students, study coordinators, project managers, medical writers, data managers,

statistics. Dr Singh is extensively involved in teaching in all in-house and online distance learning academic programs and workshops at the institute. Apart from substantial teaching, she is also engaged in few of the research projects in the field of maternal and child health as a statistician.

Ms. Nilima is a faculty at the Institute with the formal training in Statistics and Biostatistics. She has 5 years of experience in data analysis, mapping and public health research. She is involved in teaching Biostatistics to the in-house academic programs, workshops and in short term courses held at the institute. Area of her research interest is Spatial statistics and their application in public health.

The seats are limited therefore, registrations will be confirmed first come first serve basis.

How to apply?

in the health sector.

Interested participants may email their completed registration form at trainings@iiphd.org and submit the fee by E-transfer or by Demand Draft in favor of "Public Health Foundation of India" payable at Delhi and dispatch to the key contact person. Bank details for E-transfer will be shared upon request. We do not accept cash.

pharmaceutical scientists, statisticians, and those working