Public Health Training Camp **2021** *(Spring Session)*

Online Workshop on
"Data Management and Mapping in R"

🖼 Facilitators

Ashraful Alam, *Assistant Professor, The University of Tokyo, Japan*

Shafiur Rahman, *Assistant Professor, Hamamatsu University School of Medicine, Japan*

Rashedul Islam, *PhD Candidate, The University of Tokyo, Project Researcher, National Cancer Center, Japan*

Host: **Global Public Health Research Foundation, Bangladesh**
Teaching mode: *Online [Zoom]*
Duration: *3 days (12th, 13th and 14th March 2021)*
Registration deadline: **March 5, 2021**
Online registration form: *gphrf.org/index.php/registration/workshop*

📋 Contents

Date & Time	Content	Facilitators
Day 1 **12th March, 2021** *14:30-17:30* **GMT+6 time**	**Introduction to Basics** 1. Brief overview 2. Managing files, data imports and exports 3. Data preparation 4. Operators & functions 5. Data types in R **Practical:** [AA], [SR] & [RI]	Ashraful Alam [AA}; Shafiur Rahman [SR]; Rashedul Islam [RI]
Day 2 **13th March, 2021** *13:00-16:00* **GMT+6 time**	**Data Management** 1. Relational data 2. Factors 3. Date & times 4. Summary statistics 5. Basic R programming **Practical:** [AA], [SR]	Ashraful Alam [AA]; Shafiur Rahman [SR]
Day 3 **14th March, 2021** *13:00-16:00* **GMT+6 time**	**Visualization & Mapping with R** 1. R basic graphics 2. Graphics with ggplot2 3. World map 4. National & sub-national map **Practical:** [AA], [SR]	Ashraful Alam [AA]; Shafiur Rahman [SR]

NB: Participants are required to install R software.

📖 Description

In this tutorial course you will learn how to manage, analyze and present your data in R. You will learn how to install and configure software necessary for a statistical programming environment and define generic programming language concepts as they are implemented in a high-level statistical language. This course contains practical issues in statistical computing which includes programming in R, reading data into R, accessing R packages, writing R functions, debugging, profiling R code, and organizing and commenting R code.

This introduction to R programming course will help you master the basics of R. In three session, you will cover its basic syntax, making you ready to undertake your own first data analysis using R. Starting from variables and basic operations, you will eventually learn how to handle data structures such as vectors, matrices, data frames and lists. In the final section, you will dive deeper into the graphical capabilities of R, and create your own stunning data visualizations. No prior knowledge in programming or data science is required.

🎓 Course Fee

Bangladesh: **BDT 1500** for students and **BDT 2500** for professionals.

International: Low- & lower middle-income countries
$30 for both students and professionals.

Upper middle- & high-income countries
$60 for both students and professionals.

📧 Contact

GPHRF

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