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Department of Cardio-
Thoracic-Vascular Sciences
and Public Health



Biostatistics, Epidemiology
and Public Health Unit

LAIMS

2023 Biostatistics, Epidemiology, and Public Health School Workshop

Efficient Reproducibility in R: A Journey from Patchworks to Projects

Speaker **Corrado Lanera, Ph. D.**

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Abstract The phrases "*The best is the enemy of the good*" by Voltaire and "*The only way to go fast is to go well*" by Uncle Bob, a programming guru and co-founder of the Agile Manifesto, are often overinterpreted in the field of data analysis. This 2-day workshop (2 hours per day) will start with a simple R project and demonstrate how to balance speed and robustness in data analysis. We will explore potential expansions and requirements and implement incremental solutions that optimize robustness, reproducibility, maintainability, durability, shareability, and cooperability while minimizing overall effort. The workshop's goal is to guide participants from patchworks of code to well-structured projects, helping them improve their R skills and workflow for efficient and reproducible data analysis. You will also discover two great allies: templates, which save time and effort in setting up complex environments, and common standards and styles, which simplify project structures and codes for easier understanding. Whether you are a beginner or have intermediate experience in R, this workshop will help you take your data analysis to the next level.

Tuesday 16 May 5:00 p.m. - 7:00 p.m.

Room B - Institute of Hygiene

Unit of Biostatistic, Epidemiologic
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Via L. Loredan 18 - Padova

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