

**Title: Nutritional Epidemiology: methods and practice**

**Teachers:** Prof. Francesca Bravi and Prof. Valeria Edefonti (Dipartimento di Scienze Cliniche e di Comunità)

**Description:**

This lab will give you an overview on up-to-date approaches for the identification of dietary patterns in nutritional epidemiology.

There will be a focus on practical sessions, where students will face with real-life research questions on epidemiological data and their inherent complexity. In detail, we will consider datasets obtained within different study designs.

**Duration:** 20 hours (5 slots of 4 hours)

**Calendar:** at 14.30 – 18.30 on:

- February 16, 2021 (Tuesday)
- March 4, 2021 (Thursday)
- March 11, 2021 (Thursday)
- March 18, 2021 (Thursday)
- March 25, 2021 (Thursday)

**Main Contents:**

- Dietary pattern in nutritional epidemiology: rationale
- A priori, a posteriori, and mixed-type dietary patterns
- Standard approaches for the identification of dietary patterns
- Key elements in the development of novel approaches to dietary pattern identification

**Eligible students:** 15 students at most are allowed to attend

**Preferred Skills:**

- Basic knowledge of R and SAS
- Basic knowledge of matrix algebra
- Basic knowledge of dimensionality reduction methods
- Programming skills (students are allowed to use their preferred language)
- Interest in Epidemiology and in Nutritional Epidemiology

E-mail for sending Applications: [dse@unimi.it](mailto:dse@unimi.it)

**Application Deadline:** January 31, 2021