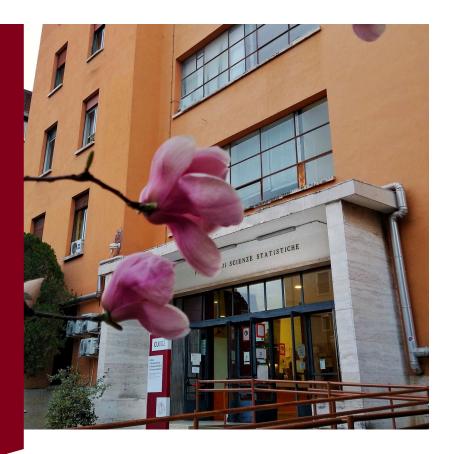
## **SEMINAR**

## **FUNCTIONAL FACTOR ANALYSIS OF BRAIN CONNECTIVITY**

15<sup>TH</sup> NOVEMBER 2024 12.00 PM ROOM 34 BUILDING CU002, FLOOR 04



In this presentation we explore the development and application of factor analysis with functional data.

Functional data analysis, which involves data repeatedly measured over some domain (such as space or time), often makes use of dimension reduction techniques such as principal component analysis, but factor analysis has thus far been relatively under explored in this area.

Motivated by applications to fMRI which require interpretable dimension reduction tools, we build a factor analysis model suitable for such data which provides interpretable components that scientists can make use of in their downstream analyses.

## Speaker **Matthew Reimherr**

Principal Research Scientist at Amazon

Affiliate Professor of Statistics at Penn State University



Participate with zoom

ID riunione: 836 2500 4899

Passcode: 123456



