UNIVERSITÀ
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DiSIA
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"GIUSEPPE PARENTI"

DiSIA SEMINAR

PhD Seminar Series
"Seminari di Statistica del Dottorato"

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March 25, 12:00 am

Viale Morgagni 59, Room 205

Using machine learning for confounding control in pharmacoepidemiology

Machine learning tools are used extensively for prediction, but they are not typically designed for causal inference. However, tools such as targeted learning have been developed to exploit the strengths of machine learning in causal inference. In this presentation I will describe machine learning and its use to infer causation in pharmacoepidemiology. I will discuss settings in which machine learning can be used together with appropriate methods for confounding control, when it is useful, and when it may be unnecessary.