

Machine Learning for econometrics

Reminders of potential outcomes and Directed Acyclic Graphs

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Thanks to Judith Abecassis for the slides on DAGs

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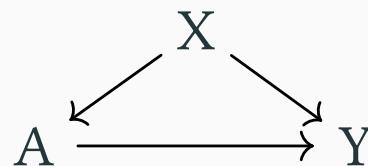
Introduction

Why is prediction different from causation? (2/2)

Causal inference (most part of economists) : What would happen if we changed the system ie. under an intervention?

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Causal inference models $(X, A, Y(A = 1), Y(A = 0))$
ie. the covariate shift between treated and control units.

Assumption

No unmeasured variables influencing both treatment and outcome
ie. no confounders.

Bibliography

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Supplementary material

DAG: Effect modifier

Effect modifier: influences the treatment effect on the outcome.

