

HERITABLE ENVIRONMENTS

Methodological Considerations for Gene-Environment Models

Evelina Akimova, Richard Breen, David Brazel, Melinda Mills Sociology Department, University of Oxford



on adulthood depressive symptoms. Me

DOES THIS BIAS OUR CONVENTIONAL MODELS?



Inflation of estimates

Inflation of estimates

R-square statistics inflation

FURTHER BIAS IN GENE-ENVIRONMENT INTERACTION ANALYSIS?

Inflation of estimates

Inflation of estimates

R-square statistics inflation

It is important not only to address the possible presence of rGE in our models, but also to assess its type

In cases of active rGE, conventional models are biased due to conditioning on a collider, and therefore produce inflated results

THANK YOU

Evelina.Akimova@sociology.ox.ac.uk

Established by the European Commission

LEVERHULME CENTRE FOR DEMOGRAPHIC SCIENCE

