



統計科學研究所
INSTITUTE OF
STATISTICAL SCIENCE



統計所學術演講



中研院統計所

學 術 演 講

講 題：Spurious Precision in Meta-Analysis

講 者：Prof. Heiko Rachinger

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時 間：2024年1月30日(星期二)，10:30-12:00

地 點：統計所B1演講廳

Abstract

Meta-analysis upweights studies reporting lower standard errors and hence more precision. But in empirical practice, notably in observational research, precision is not given to the researcher. Precision must be estimated, and thus can be p-hacked to achieve statistical significance. Simulations show that a modest dose of spurious precision creates a formidable problem for inverse-variance weighting and bias-correction methods based on the funnel plot. Selection models fail to solve the problem, and the simple mean can beat sophisticated estimators. Cures to publication bias may become worse than the disease. We introduce an approach that surmounts spuriousness: the Meta-Analysis Instrumental Variable Estimator (MAIVE), which employs inverse sample size as an instrument for reported variance.

※ 茶 會：10：10開始

※ 英文演講，實體與線上視訊同步進行。