

Weight of Statistical Evidence

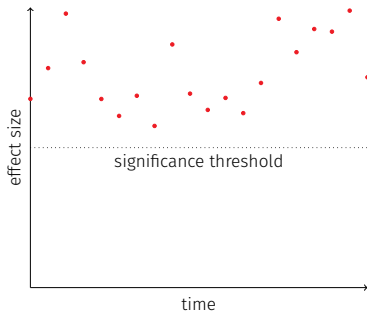
Detection and Correction of Publication Bias

Servan Grüninger

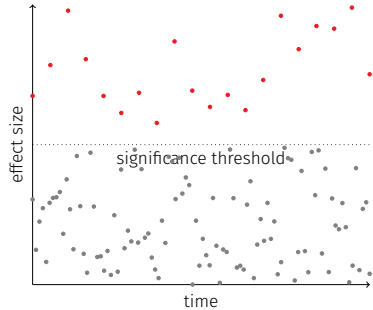
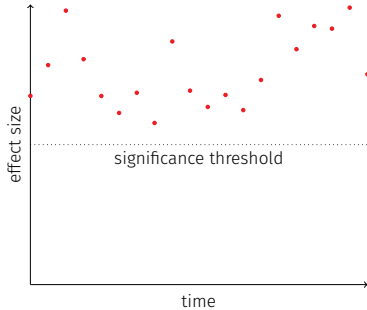
Zurich, November 29th 2019

EBPhD Admission Interview

Publication bias—why care?

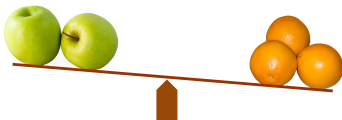


Publication bias—why care?



Three goals

1. Make evidence comparable



Three goals

1. Make evidence comparable
2. Detect publication bias



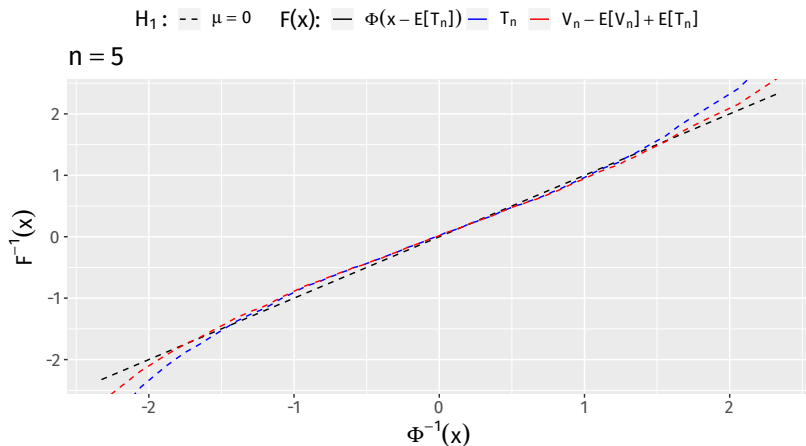
Three goals

1. Make evidence comparable
2. Detect publication bias
3. Correct publication bias



Goal 1: Make evidence comparable

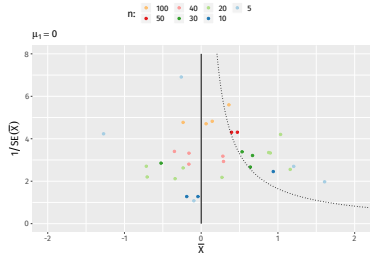
Goal 1: Make evidence comparable



Goal 2: Methods to detect publication bias

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- The funnel plot



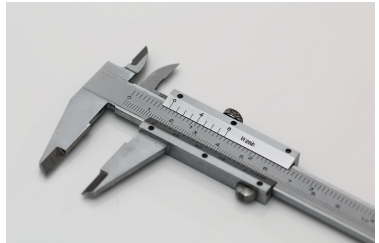
Goal 2: Methods to detect publication bias

- The funnel plot
- File drawer calculation



Goal 2: Methods to detect publication bias

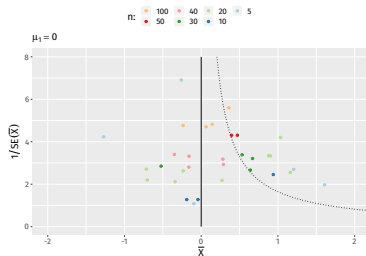
- The funnel plot
- File drawer calculation
- The calliper test



Goal 3: Methods to correct publication bias

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- Trim-and-fill



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- Trim-and-fill
- Reweight by publication probability



Goal 3: Methods to correct publication bias

- Trim-and-fill
- Reweight by publication probability
- Maximise truncated likelihood

