Small telescopes -

Anderson et al, 2017 / Taylor & Muller, 1996

Estimate the distribution assuming a truncated t distribtuion. Fun! Probably do with and without removing the 0s for this one - as negative effects might be estimated at 0 / negative.

McShane & Böckenholt, 2016

Power Calibrated Effect Size approach ~~ Perform and check which effect size it is equivilent to selecting as an estimate of the effect size

SEE: McShane, B. B., & Böckenholt, U. (2016). Planning sample sizes when effect sizes are uncertain The power-calibrated effect size approach.R for methods for this.

There are four main suggested methods for estimating effect sizes from single studies for use in power analysis, while accounting for publication bias.

TRY SMALL TELESCOPES, lower bound of 95% CIs, other methods of adjustment I.e., (Anderson et al., 2017; McShane & Böckenholt, 2016; Perugini et al., 2014; and Taylor & Muller, 1996). Maybe look into some of the meta-analytic methods?

Note this is meant to provide a specific thing, i.e., an estiamte accounting for uncertainty not a an estimate of the true effect sans publcaiton bias, and properly should be used on the second study too.

Perugini et al., 2014

Safeguard power - the lower bound of the xx% CI.