

Polishing your poster and preparing for your presentation

29 November 2021

Modern Research Methods

Poster presentations

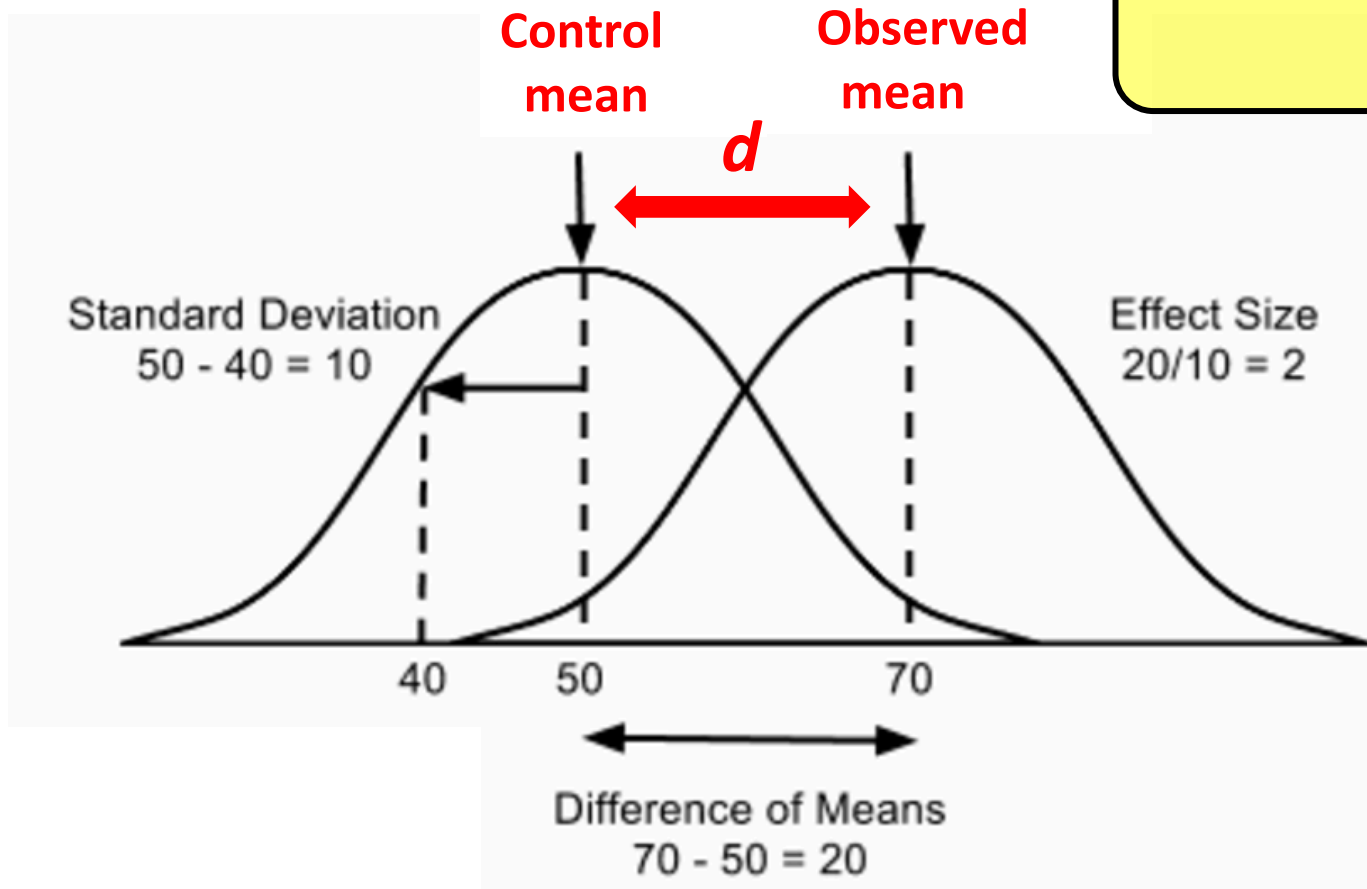
- I've left comments on all the posters – please address all these for the final poster
- **Final draft due at noon tomorrow** (I will download them at noon and send them off to be printed)
- **Presentation scripts due at noon tomorrow**

Revision notes

- You should have plotted the relationship between effect size and each of your moderators, and chosen 1-2 that are the most theoretically interesting
- Your moderator plots should be polished
- If possible, make specific moderator predictions in the background section
- While you won't be able to put all plots on your poster, you should know how all the moderators relate to effect size – someone may be interested!
- Explain clearly how effect size was calculated

Quantifying the magnitude of an effect

$$\text{Effect Size} = \frac{\text{diff. between means}}{\text{standard dev.}}$$



Interpreting Cohen's d

| Size | Description | Cohen's Intuition | Psychological Example |
|------|-------------|--|--|
| .2 | "small" | Diff. between the heights of 15 yo and 16 yo girls in the US | Bouba-kiki effect in kids (~.15; Lammertink, et al. 2016) |
| .5 | "medium" | Diff. between the heights of 14 yo and 18 yo girls. | Cognitive behavioral therapy on anxiety (~.4; (Belleville, et al., 2004) Sex difference in implicit math attitudes (~.5; Klein, et al., 2013) |
| .8 | "large" | Diff. between the heights of 13 yo and 18 yo girls. | Syntactic Priming (~.9; Mahowald, et al., under review) Mutual exclusivity (~1.0; Lewis & Frank, in prep) |



Undergraduate Psychology Poster Session

The students of Social, Cognitive, and Modern Research Methods invite you to a poster session.

**Thursday December 2nd 4:30-6pm
Baker Hall 336 Classrooms**

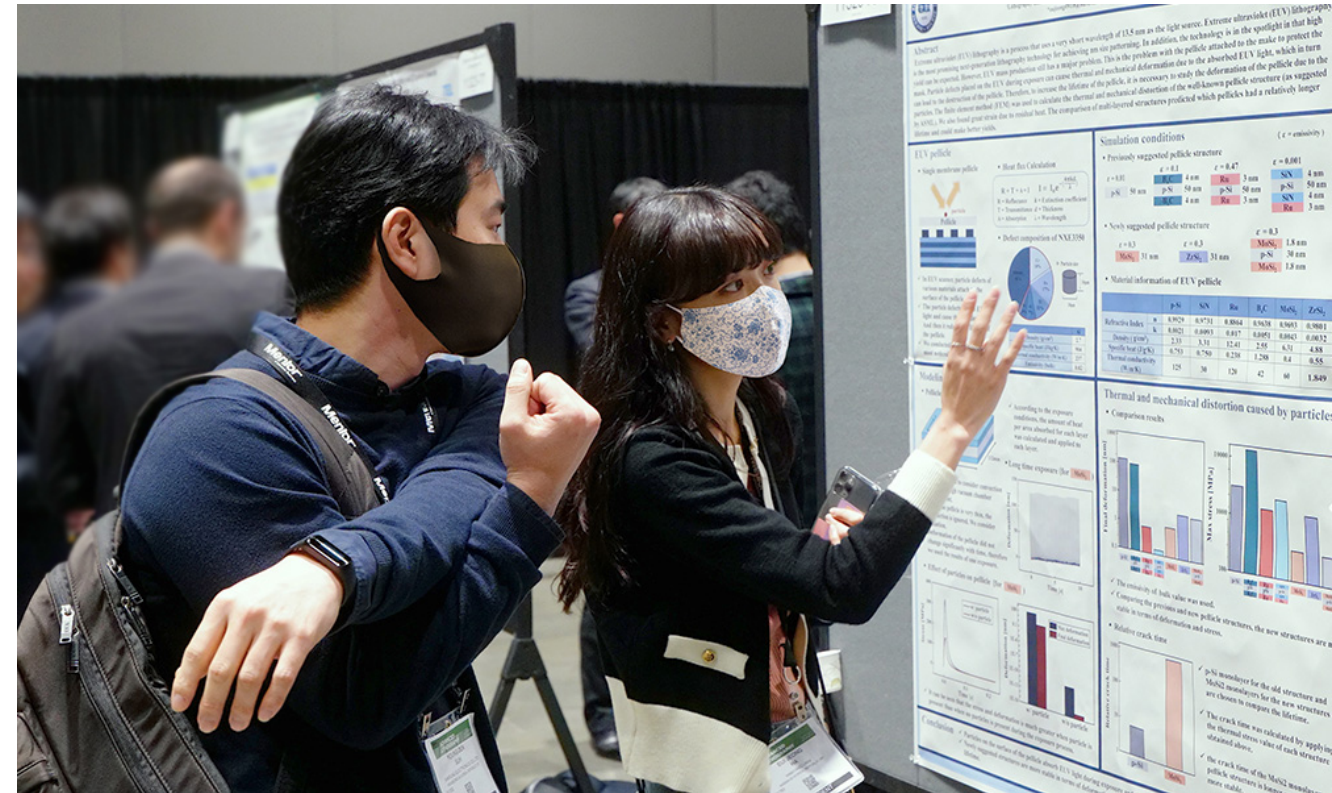
All faculty, post-docs and grads are invited to cast ballots for the best poster prize.

Take a break and check out the impressive research conducted this semester!

Come Check it out!

Poster presentation

- First hour will be poster presentations
- Judges and community members will stop by your poster
- 3-4 min. presentation of your poster, with each group member presenting one part
- After presentation (or during), they will ask follow-up questions

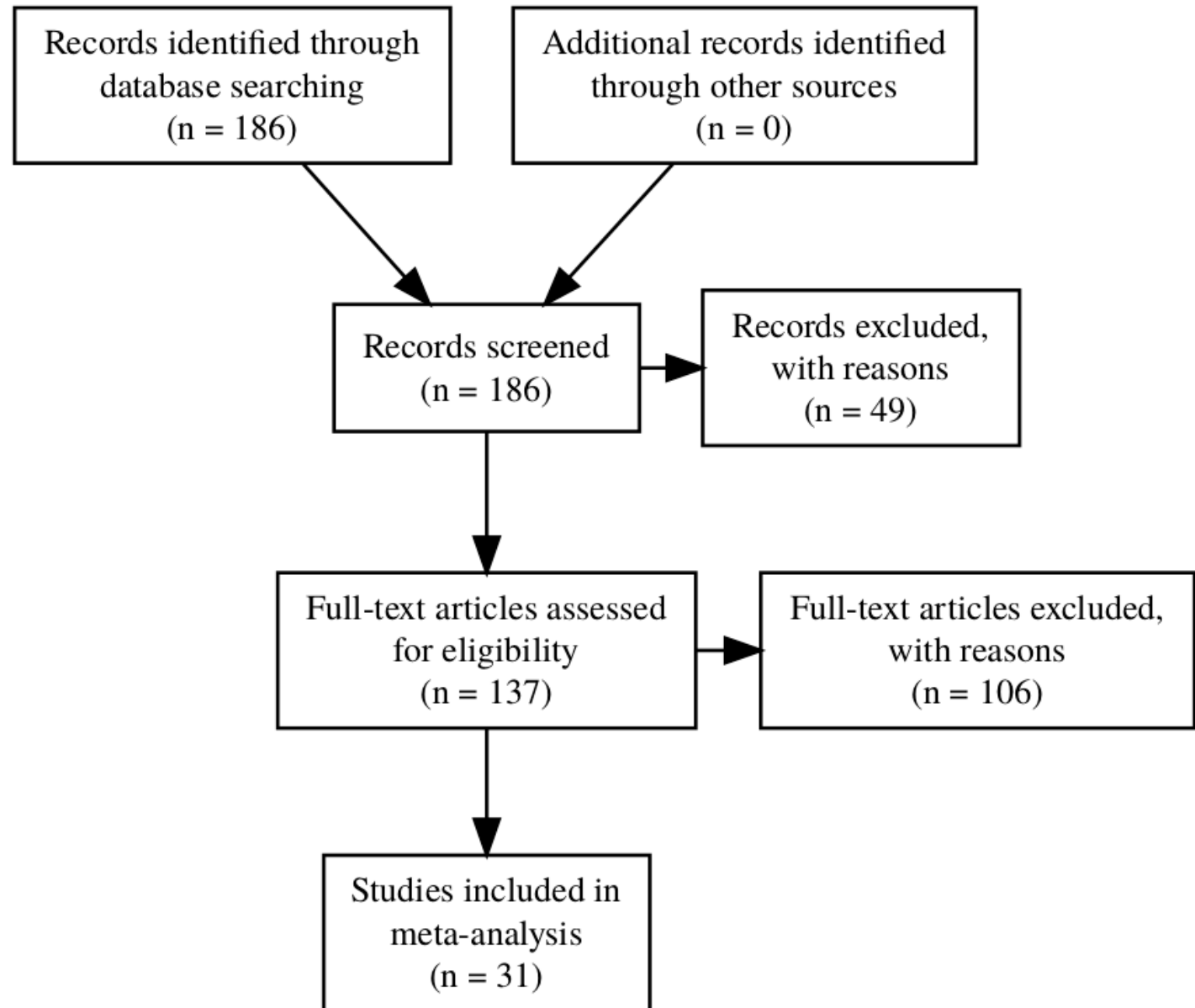


Presenting Poster Guidelines

- Think of your poster as a visual aid to your oral presentation
- The poster should **help you** make your points
- Your oral presentation should include points beyond those that are explicitly stated on the poster.
- Make sure you clearly state when you're moving on to a new section (e.g. "Moving on to Methods....")
- Make sure you explain each of the figures
 - What they're called
 - How to interpret them
 - Assume the audience doesn't know what your plots mean

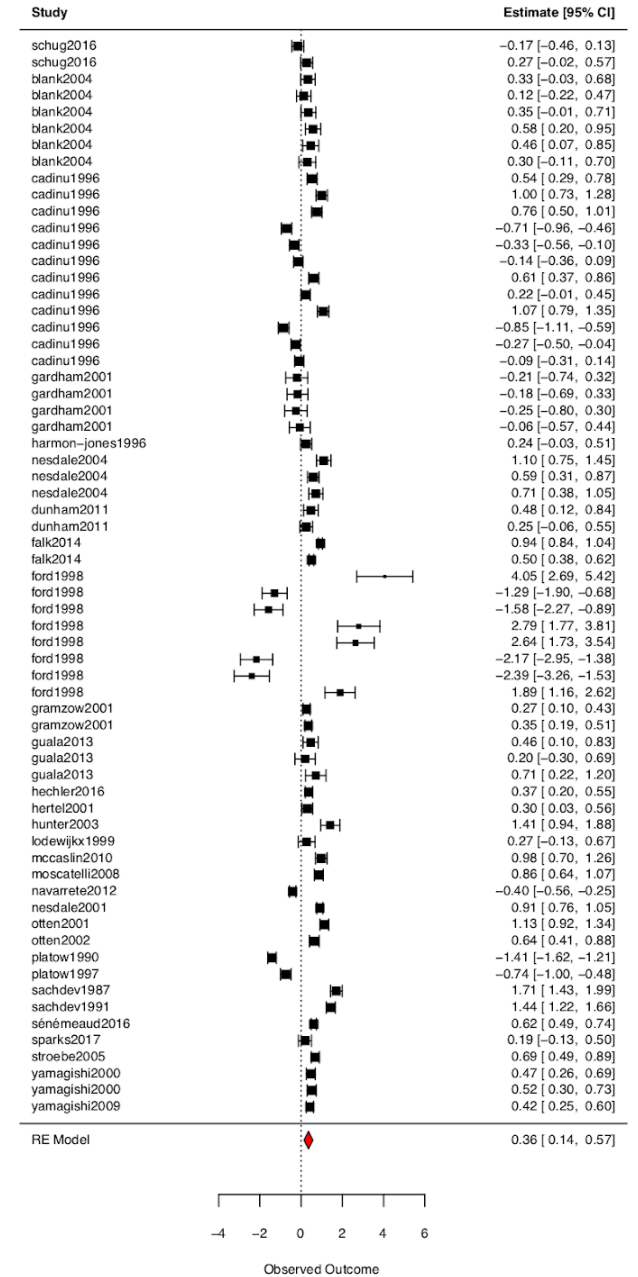
What you should say:

- “This is a PRISMA flow diagram
- It shows the phases of our systematic review of the literature
- [walk through the phases]



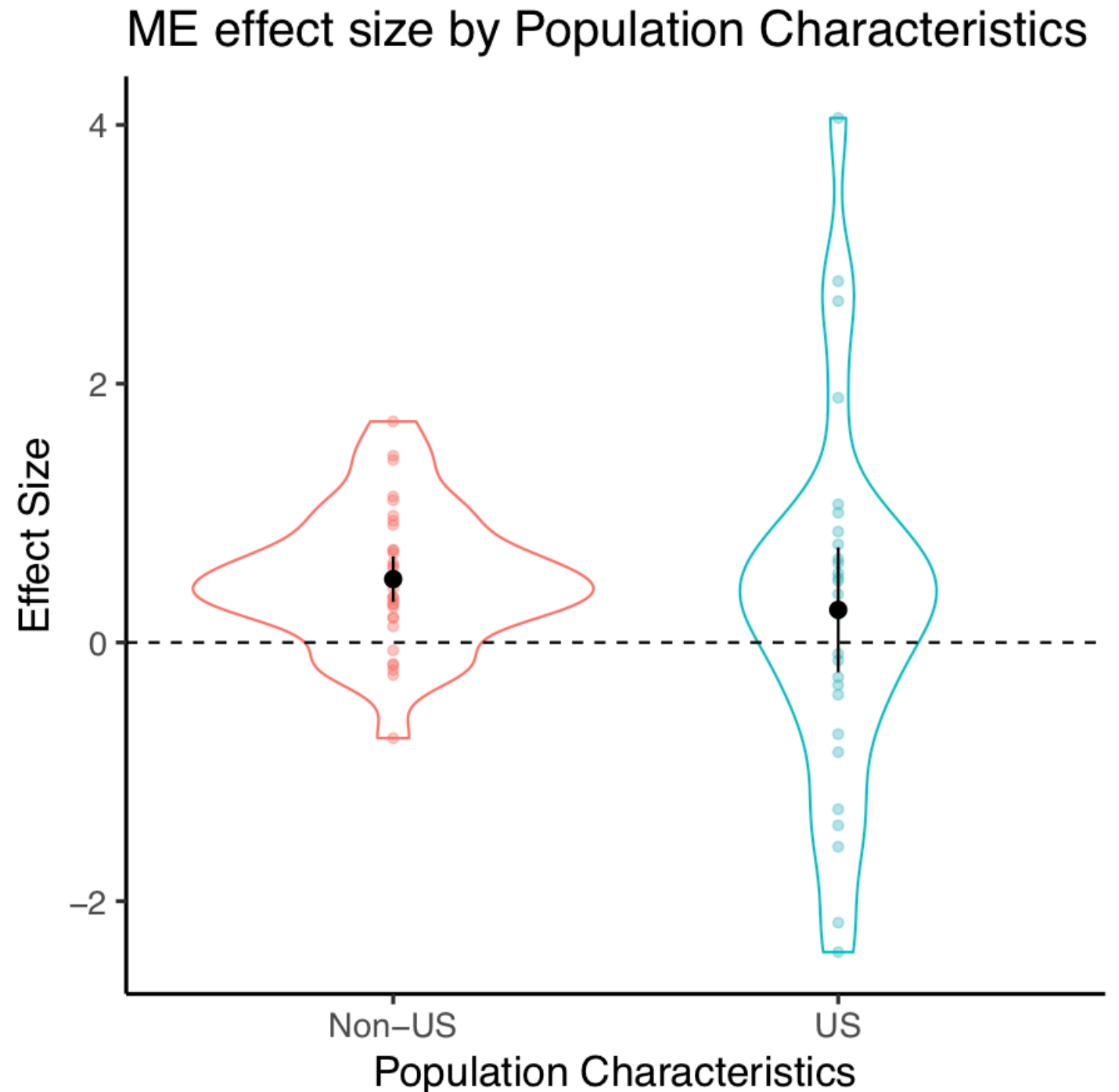
What you should say:

- “This is a Forest Plot
- Each point is an effect size in our MA
- The left side identifies the study the effect size came from
- The right side shows the effect size estimate for that study
- The red diamond at the bottom shows the overall meta-analytic mean, which is ...”



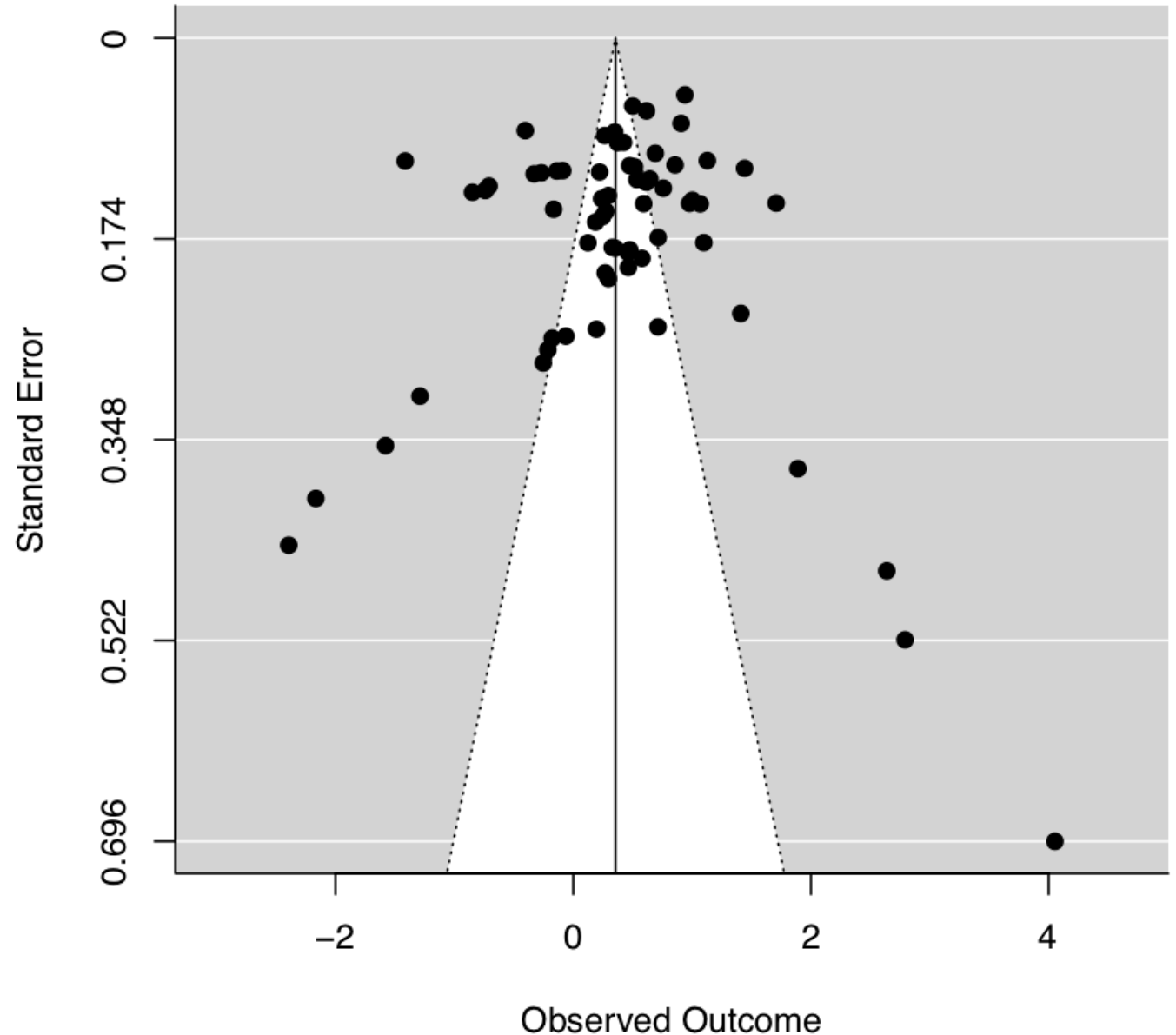
What you should say:

- “This plot shows effect size on the y-axis
- And population type on the x-axis (US vs. non-US)
- The dashed line shows an effect size of zero
- You can see that there is a trend for the effect size to be bigger for non-us populations
- This means that non-us populations have stronger preference for the the ingroup to the outgroup”

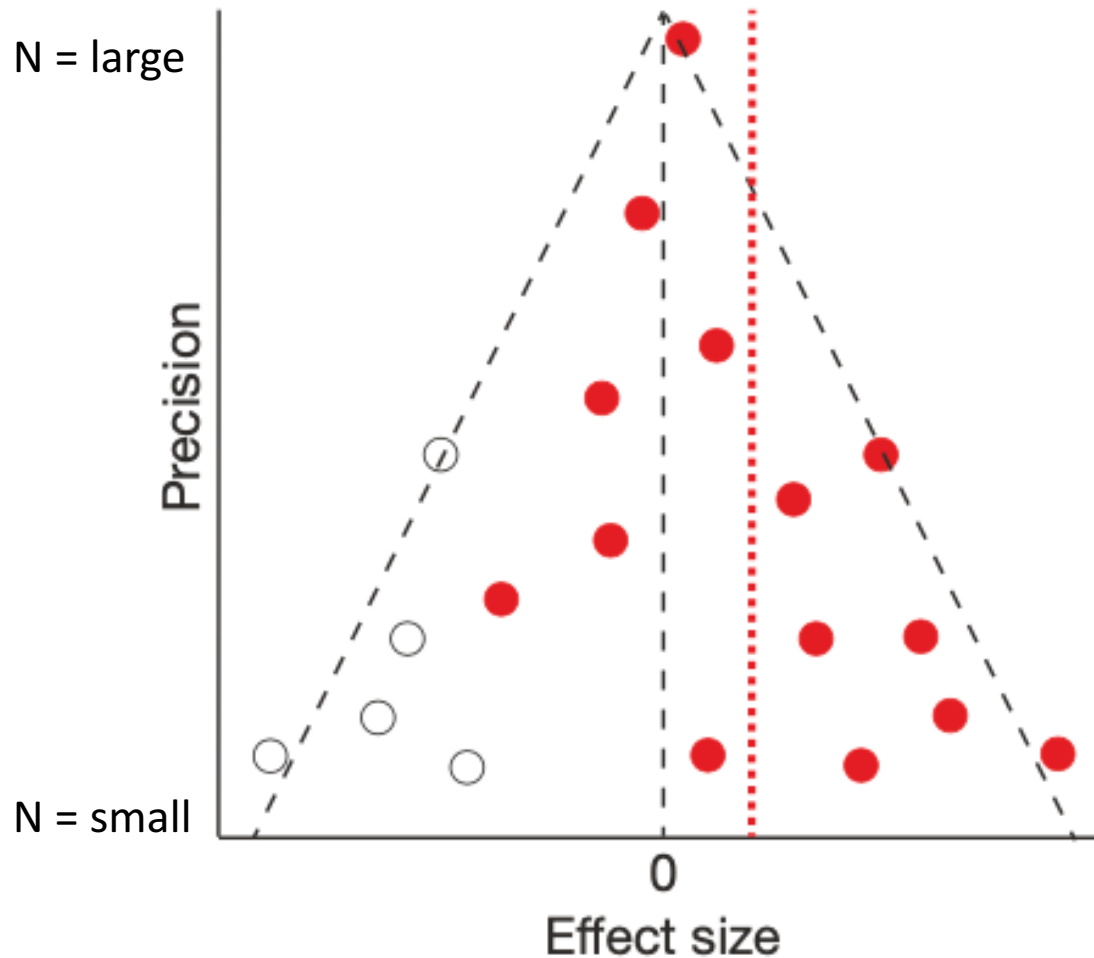


What you should say:

- “This is a funnel plot
- It shows the precision of the study on the y-axis
- And effect size on the x-axis
- The funnel corresponds to a 95% CI around the overall effect size mean
- Each point is an effect size
- If there is no publication bias, we should expect the points to be symmetrical”



Funnel Plots (from week 11)



- Scatter plot
- Red points are each an effect size
- X-axis = magnitude of effect size
- Y-axis = measure of how precise the study is (number of participants, SE)
- Black vertical dashed line is an effect size of zero
- Red dashed line is meta-analytic effect size
- Studies that are more precise (i.e. larger sample sizes) should have less variance around the true population effect size.

Successful poster



1. Polished and clear
2. Depth of understanding
3. Something interesting or surprising
 - These are your moderators!
 - Make clear prediction in background section about moderators
 - Come back to moderator in results
 - And summarize moderator in conclusion
 - Thoughts on what your moderator effect means – why is there an effect?

Presentation scripts

- Presentation scripts due with your poster tomorrow
- Can be rough, but should include what each group member is going to say
- In class on Wednesday, we'll do a practice run through with each of your posters
- You'll need to practice with your group to get it down to 3-4 minutes

In class today

- Work on polishing your poster, making sure to address my comments
- If any comments unclear, ask me or Roderick
- Also work on script