

TAKE THE PREREGISTRATION CHALLENGE COGNITIVE SCIENCE



Transparency into the research workflow is a core value of **science**. Preregistration adds transparency by specifying *in advance* how data will be collected and analyzed.

PREREGISTRATION ADDS CLARITY & CREDIBILITY

Preregistration distinguishes hypothesis testing from hypothesis generating research. Both are important. However, the same data cannot be used to generate and test a hypothesis, as often happens unintentionally.

HYPOTHESIS TESTING	VS.	HYPOTHESIS GENERATING
Statistical tests are specified in advance Goal is to minimize false discoveries		Exploring through data is encouraged Goal is to avoid missing serendipitous findings

Presenting exploratory outcomes as confirmatory makes results seem tidier, but reduces credibility and rigor.

WHY PREREGISTER?

- 1 It increases the credibility of your results.
- 2 It allows you to stake a claim to your ideas sooner.
- 3 It improves your design by encouraging earlier planning.
- 4 You can win \$1,000 for publishing the results.

PUBLISH IN THESE ELIGIBLE JOURNALS

- Brain and Behavior
- Cognition & Emotion
- Cortex
- Journal of Memory and Language
- Learning & Behavior
- Memory & Cognition
- Nature
- Nature Human Behaviour
- PLOS
- Science

And more. . .

Preregistering your study does not guarantee publication in any journal.

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