# **Pre-registration Workshop**

Georgia-Ann Carter pplsopenresearch@ed.ac.uk

# **Pre-registration**



Pre-registration is the act of specifying your research plan before conducting the study

#### General process:

- State clear research hypothesis
- Outline analysis plan prior to data collection
- Link hypothesis to analysis plan

	DEFINITENESS PREDICTION	
Public registration 👻	Updates +	Д <b>ч</b>
A Overview		Contributors
Files	Preregistration Template from ≡ AsPredicted.org	Georgia-Ann Carter and Mante S. Nieuwland
🔲 Wiki	0	Description
Components 0	Have any data been collected for this study already?	No description
	Yes, at least some data have been collected for this study already	Registration type
Links 0	What's the main question being asked or hypothesis being tested in this study?	Preregistration Template from
III Analytics	We have collected data from 9 participants at this moment. Our main question is to	AsPredicted.org
Comments 0	what extent does the discourse status of an anticipated referent play a role during predictive processing, in particular whether it impacts predictive updating processes on	Date registered
- Commence -	prenominal articles (e.g., 'het' vs. 'een' when the predictable word is 'boek'). In this way,	February 22, 2019
<	<ul> <li>we follow on from previous work demonstrating a sensitivity to the expectedness of definite determiners during reading. By utilising the definiteness in Dutch articles,</li> </ul>	Date created
	('de/het' vs. 'een'), and manipulating the cloze probability of certain article noun	February 22, 2019
	combinations, we test whether the marked reference status that a definite article holds, compared to the generality of an indefinite article, will alter predictive processes related	Associated project
	to the critical noun when presented with varying biasing contexts. The hypothesis is	osf.io/ud2b7
	therefore that unexpectedly definite articles more strongly impact ongoing processes than unexpectedly indefinite articles, since only the former violates the presupposition	Internet Archive link
	of a uniquely identifiable referent.	https://archive.org/details/osf-
	Describe the key dependent variable(s) specifying how they will be measured.	registrations-b8fuz-v1
	The EEG signal will be continuously recorded from 27 active scalp electrodes mounted	Category
	in an elastic cap (ActiCAP), placed according to the 10-20 convention and each	Project
	referenced to the left mastoid. The dependent variables will be computed for each trial: average voltage in two time windows, namely 300-500ms and 500-700ms time window	Registration DOI
	after onset of the articles/nouns, and in two spatial regions of interest (Frontal: F3, Fz,	10.17605/OSF.IO/B8FUZ
	F4, FCz, FC1, FC2; Central-posterior: Cz, CP1, CP2, P3, Pz, P4, see layout below, voltage will be averaged over the electrodes in these selections).	Publication DOI
		Publication DOI

# Why would I use it?



Why pre-register?:

- Increases credibility
- Easy way to plan research
- Have analysis plan all in one place (possibly even before collecting data!)

### **Pre-registration**



Does that mean I can't change my plan?

Nope!  $\rightarrow$  exploratory analyses are allowed, they just have to be *stated* 

- Can submit edit to embargoed pre-registration plan
- Creates list of changes and reasons why

Transparency is key



## Next Steps

• Work through an example pre-registration together on OSF

• Can either focus on example walkthrough or use your own research for inspiration!

https://osf.io/