BRIEF REPORT



Experience with research paradigms relates to infants' direction of preference

Chiara Santolin¹ | Gonzalo Garcia-Castro¹ | Martin Zettersten² | Nuria Sebastian-Galles¹ | Jenny R. Saffran²

¹Centre for Brain and Cognition, University Pompeu Fabra, Barcelona, Spain

²Waisman Center and Department of Psychology, University of Wisconsin-Madison, Madison, Wisconsin, USA

Correspondence

Chiara Santolin, Centre for Brain and Cognition, University Pompeu Fabra, c/ Ramon Trias Fargas 25-27, 08005, Barcelona, Spain.

Email: chiara.santolin@upf.edu

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Abstract

Interpreting and predicting direction of preference in infant research has been a thorny issue for decades. Several factors have been proposed to account for familiarity versus novelty preferences, including age, length of exposure, and task complexity. The current study explores an additional dimension: experience with the experimental paradigm. We reanalyzed the data from 4 experiments on artificial grammar learning in 12-month-old infants run using the head-turn preference procedure (HPP). Participants in these studies varied substantially in their number of laboratory visits. Results show that the number of HPP studies is related to direction of preference: Infants with limited experience with the HPP setting were more likely to show familiarity preferences than infants who had amassed more experience with this paradigm. This evidence has important implications for the interpretation of experimental results: Experience with a given method or, more broadly, with the laboratory environment may affect infants' patterns of preferences.

KEYWORDS

familiarity preference, novelty preference, preferential looking, head-turn preference procedure, linear mixed-effects model

[Correction added on November 13, 2020, after first online publication: second author name updated as 'Gonzalo Garcia-Castro'.]

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1 | INTRODUCTION

The importance of changes in preferential looking has been recognized since at least the 1960 s, when Fantz (1964) showed that infants preferentially attend to novel visual stimuli. Subsequent studies extended this evidence to domains including auditory perception and cognition, revealing differences in direction of preference. Rather than representing a binary distinction, direction of preference can be construed as a continuum from more familiar to more novel (e.g., Thiessen et al., 2005). The infant's position along this continuum seems to be determined by a variety of factors related to the task and/ or age (e.g., Aslin, 2007; Houston-Price & Nakai, 2004; Hunter & Ames, 1988). However, it is frequently the case that the observed direction of preference does not conform with expectations based on these dimensions; the infancy literature is rife with examples of counterintuitive patterns of preference (e.g., Bosch & Sebastian-Galles, 2001; Dawson & Gerken, 2009; DePaolis et al., 2016; Fiser & Aslin, 2001; Johnson et al., 2009; Jusczyk & Aslin, 1995; Sebastian-Galles & Bosch, 2009; Thiessen, 2012).

One frequently overlooked factor is that infants do not arrive at the laboratory as naïve participants. Like adults, they bring significant prior experience that may influence their performance in laboratory tasks. Researchers attempt to override or sidestep those experiences by using novel stimuli (e.g., unfamiliar languages, shapes, or sounds), or by integrating those experiences into their experimental designs (e.g., monolingual vs. bilingual infants; see Sebastian-Galles and Santolin (2020) for a recent review). But there may also be forms of experience that go unidentified by researchers. One such factor is that many infants participate in multiple (putatively unrelated) experiments over the course of weeks or months. This common practice in infant research reflects the challenges of advancing a field of investigation that is based on a limited and hard-to-recruit population. Researchers are typically very careful to avoid stimulus contagion across unrelated studies, but it is possible that prior laboratory experience impacts infants' performance. The purpose of this article is to explore the effect of experience with experimental paradigms on direction of preference in learning tasks.

In an influential model of preferential behavior in infants, Hunter and Ames (1988) hypothesized three central factors to affect the strength and direction of preference: age, familiarization duration, and task complexity. In a given task, younger infants tend to prefer familiar stimuli whereas older infants are more likely to prefer novel stimuli (e.g., Colombo & Bundy, 1983; though see Bergmann and Cristia (2016) for a meta-analysis suggesting that age does not predict shifts in preference). A shorter exposure to familiar stimuli prior to testing also leads infants to subsequently prefer the familiar items (for reviews, see Rose et al. (2004)). Task complexity refers to the stage of stimulus processing. For example, in a visual recognition task, 4-month-old infants preferred familiar objects before subsequently showing a strong preference for the novel object (Roder et al., 2000). Task complexity can also refer to the complexity of the stimuli. For example, sequential stimuli put greater strain on memory resources than materials in which all components are simultaneously available (e.g., Ferguson et al., 2018). A related dimension is the similarity between stimuli used during familiarization and test: When there is a close perceptual match, infants are more likely to show a novelty preference (e.g., Hunter & Ames, 1988; Thiessen & Saffran, 2003). The combination of these factors informs predictions concerning direction of preference in systematic ways. For example, Thiessen et al. (2005) manipulated length of exposure and observed a flip from familiarity to novelty preference after doubling the amount of familiarization received by infants. Similarly, Ferguson et al. (2018) manipulated sequential vs. spatial presentation of visual patterns and observed stronger novelty effects with (a) increasing age and (b) spatial presentation.

The idea behind the current paper emerged from a puzzling pattern of results in a replication of a published study focused on nonlinguistic artificial grammar learning in 12-month-olds (Santolin & Saffran, 2019). We observed a flip in preference from novelty to familiarity between the original study

and its replication (Santolin et al., 2019), despite the use of identical stimuli and procedures. While there were some differences between the studies (most notably, in the location in which the studies were run), one main factor stood out to us: Many of the infants in the study that elicited a novelty preference had participated in prior studies using the head-turn preference procedure (HPP), whereas most of the infants in the study that elicited a familiarity preference were first-time HPP participants. We reasoned that the more familiarity infants had with the laboratory apparatus and task demands, the more likely they would be to learn rapidly, leading to a novelty preference. To investigate this question, we conducted exploratory analyses combining the data from these two experiments with the data from two other published artificial grammar learning tasks with similar design that included 12-month-olds who ranged in the number of laboratory visits (Saffran et al., 2008, Exp. 1 Language P, and Saffran & Wilson, 2003, Exp. 2). Our hypothesis was that the amount of infants' experience with HPP would affect direction of preference.

2 | METHODS

A brief description of the four experiments included in these analyses, and our rationale for selecting them is provided in the Appendix S1, Section 1 (see Figure 1 for a summary of the results). Infants were aged between 11 and 13 months in all studies. A fully reproducible repository hosting data and analyses is available at https://osf.io/g95ub/.

We modeled results of all infants (N = 102) who completed the four studies. Number of HPP visits varied from one to six (including the current visit). We fit a linear mixed-effects model including *Looking Time* as the response variable, and *Test Item* (Familiar vs. Novel), *HPP* (number of experiments completed by infants), and their interaction as fixed effects. We also included by-participant and by-study random intercepts [4 levels: Santolin and Saffran (2019), Santolin et al. (2019), Saffran et al. (2008), Saffran and Wilson (2003)]. The *HPP* predictor was coded as a continuous variable indicating each infant's total number of HPP experiments. Test Item was centered on familiar test items (Familiar = 0; Novel = 1). Since the experiments differ at distinct levels (e.g., different stimuli and laboratory location), the model accounted for cross-participant and cross-study differences in looking time. Degrees of freedom were approximated using the Kenward–Rogers approach (e.g., Judd et al., 2012), which can result in noninteger values. See Appendix S1, Section 3, for additional details.

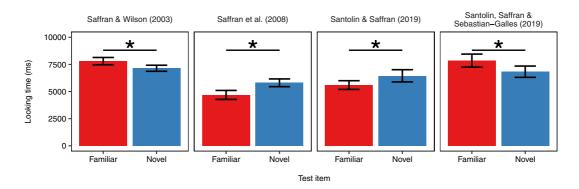


FIGURE 1 Looking time for familiar and novel test stimuli of the original studies. Stimuli vary based on the experiment. Error bars indicate the standard error of the mean

We predicted a *Test Item* (familiar vs. novel) by number of *HPP* studies interaction, indicating that the duration of infants' looking toward familiar versus novel items would depend on infants' HPP experience. An interaction could result from at least three different patterns of results: an increase in looking time for novel items, a decrease in looking time for familiar items, or both, as a result of additional HPP experience.

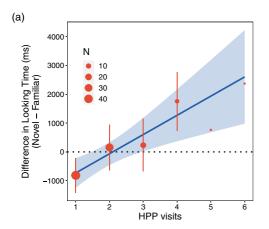
3 | RESULTS

The interaction was statistically significant, $F_{(1,100)} = 11.99$, p < 0.001, suggesting that the effect of Test Item on looking time differences was affected by the number of HPP experiments infants had participated in (Table 1, Figure 2). In line with our predictions, the size of the difference between looking times on familiar and novel test items changed as a function of number of HPP visits.

The main effect of the HPP predictor was also significant, $F_{(1,133.1)} = 4.80$, p = 0.03, indicating that the Test Item by HPP interaction is mainly driven by a significant decrease in looking time to familiar items as the number of HPP visits increases. There was no evidence that a greater number of HPP visits were accompanied by longer looking to novel items, $F_{(1,133.1)} = 0.27$, p = 0.61.

The number of infants in our dataset who had participated in many HPP studies was very small; in particular, the five and six HPP visits groups each included only a single infant. We thus reanalyzed the data to ensure that the pattern of results was not driven by the small number of infants who had visited the laboratory far more times than most; these participants may not be representative of our samples more generally. The pattern of results was unchanged, indicating that the interaction effect was not driven exclusively by participants with an unusually high number of visits (HPP 1–5: $F_{(1,99)} = 10.29$, p = 0.002; HPP 1–4: $F_{(1,98)} = 10.43$, p = 0.002; HPP 1–3: $F_{(1,92)} = 4.56$, p = 0.035). Notably, the interaction is significant even with the subset of infants who participated in 1–2 HPP experiments only, $F_{(1,78)} = 4.05$, p = 0.048 (see Appendix S1, Section 4, for details).

In addition, we conducted the main analysis on the two older datasets of Saffran and Wilson (2003) and Saffran et al. (2008) alone and found a similar significant interaction between Test Item (novel



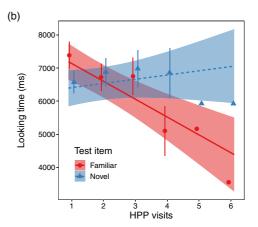


FIGURE 2 (a) Difference in looking time between novel and familiar trials, as a function of HPP visits. Shaded band indicates 95% CIs. Points represent group means, with error bars representing 95% CIs. (b) Predicted looking time (in ms) for familiar and novel test items plotted against number of HPP visits. Shaded bands represent +1/-1 SEs. Points represent group means with +1/-1 SEs as error bars





TABLE 1 Summary of the results of the linear mixed-effects model.

					Den.	
Term	Coefficient	SEM	95% CI	$\boldsymbol{\mathit{F}}$	df	p
Intercept	7679.1	673.1	[6390.1, 9294.1]	124.69	9.1	< 0.001
Test item	-1398.8	411.3	[-2204.8, -589.1]	11.57	100.0	< 0.001
HPP	-539.7	238.7	[-999.9, -74.8]	4.80	133.1	0.03
Test Item * HPP	667.1	192.6	[247.2, 1028.5]	11.99	100.0	< 0.001

vs. familiar) and number of HPP visits, $F_{(1,50)} = 11.00$, p = 0.002; (see Appendix S1, Section 5, for details).

4 | DISCUSSION

Experience with the head-turn preference procedure affects direction of preference, at least for the subset of studies examined in this article. The exploratory analyses included data from four experiments with 12-month-old infants performing artificial grammar learning tasks. Infants who had *not* previously experienced the HPP setting were more likely to show familiarity preferences than infants who had prior experience. One possible explanation for this finding relates to the structure of the HPP task. There are at least two types of information that must be simultaneously encoded during an infant's first HPP experiment: (a) visual—auditory contingency (i.e., sounds appear contingently on the infant looking at the screen) and (b) the experiment stimuli (e.g., word sequences and sound streams). When experiencing HPP for the first time, infants must both learn the structure of the HPP method and solve the learning problem itself (e.g., grammatical pattern learning). Such double processing of information likely increases the task complexity, biasing results toward familiarity preferences. Infants who return to the laboratory for subsequent HPP experiments may be more able to focus on the learning problem, resulting in better learning as evidenced by novelty preferences.

It is important to notice that this effect may not just be limited to experiencing the HPP setting *per se*, but may also be influenced by the laboratory visit itself. When infants visit the laboratory for the first time, they face an unusual situation: a new environment with unfamiliar people, testing rooms with a peculiar design (e.g., monochrome walls with big screens), and novel sounds and images (e.g., blinking lights). This is a significant amount of information for a young infant to process at once. In contrast, as infants come back to the laboratory for subsequent studies, the location, testing room, and research staff may become more familiar, reducing the information load (see Rovee-Collier (1997) for effects of consistent training and testing contexts on reminding infants of details of prior experiences). In the current study, the number of laboratory visits was significantly correlated with the number of HPP visits, $r_{(100)} = 0.92$, p < 0.001, 95% CI = [0.88, 0.94]; therefore, the current analyses cannot discern which type of previous experience (HPP setting and/or laboratory) is responsible for the observed results.

Our findings have important implications for the interpretation of directions of preference in future studies. Prior experience with a laboratory or research paradigm could account for distinct, and sometimes counterintuitive, patterns of preference. We encourage researchers to track number of visits as part of their laboratory's workflow and to consider this form of prior experience when preregistering analytic plans and interpreting results. Doing so may be particularly informative when unpredicted directions of preferences emerge, as in the replication that spawned the current set of analyses. Recording the type of task implemented with HPP might also be informative. Accumulating

experience with different tasks (e.g., those measuring spontaneous preferences versus those measuring learning over the course of an experiment) might have a different effect on the results than having experienced only tasks including a learning phase.

It is also possible that apparent null effects may be driven by variability in the number of laboratory visits; infants with more laboratory experience may show novelty preferences while infants with less laboratory experience may exhibit familiarity preferences, leading to an overall lack of preference across the sample. Effects of prior research experience are less likely to be evident in studies with large effect sizes, where there is less intra-infant variability. In addition, apparent age differences may conceivably be the result not of age *per se*, but of the number of prior studies, since older infants are likely to have participated in more experiments than younger infants, on average. By tracking infants' study participation, it becomes possible to examine these potential effects, which may be especially apparent in tasks that yield relatively small effects (as most infant studies do).

A related hypothesis suggests that less common directions of preference for studies addressing a given topic (e.g., rule learning) likely represent sign errors (a sampling error in which the estimated effect has the wrong sign, for example, a novelty preference is incorrectly estimated to be a familiarity preference; see also Gelman & Carlin (2014)) as opposed to true infant preferences (Rabagliati et al., 2019; Bergmann et al., 2019). While this may be the case, it is also possible that some discrepancies in preferential looking are related to factors like those investigated in the current study: prior experience with the testing environment. For this reason, unexpected directions of preference may actually be meaningful and informative about the state of infant learners in specific studies.

These results also suggest extensions of models of the factors inducing different patterns of preference (e.g., Hunter & Ames, 1988). The current results suggest that the dimension of task complexity could be expanded beyond the specific task content (e.g., how complex are the stimuli presented) to include *infants' familiarity with the paradigm*. Our findings, in fact, suggest that the learning outcome of a given task is constrained by how much task experience infants have accumulated through prior laboratory visits. Therefore, the amount of novel information infants must process in parallel during a study increases the task demands, and the likelihood of showing a familiarity preference. This may well include the novelty of the experimental paradigm. Ongoing efforts in the infant research community to facilitate large-scale replications of studies (e.g., The ManyBabies Consortium, 2020) provide a unique opportunity to determine whether experience with different paradigms influences preferential behavior. Expanding our findings to other paradigms (e.g., infant-controlled preferential looking procedures and visual-world paradigms) would continue to advance our understanding of how task/laboratory experience modulates infants' performance. These efforts, in turn, will bring us closer to connecting our research paradigms with the pressing questions about infant behavior that we hope to answer.

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ORCID

Chiara Santolin https://orcid.org/0000-0002-8361-5574

Gonzalo Garcia https://orcid.org/0000-0002-8553-4209

Martin Zettersten https://orcid.org/0000-0002-0444-7059

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SUPPORTING INFORMATION

Additional supporting information may be found online in the Supporting Information section.

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