Learning to Wait: Dynamic Persistence in Uncertain Environments<br>José Luis Baroja, Arturo Bouzas<br>Laboratorio 25, Psychology School

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Previous research suggested that humans are willing to wait for a delayed reward depending on the expected time to obtain it. Specifically, if the expected time decreases as time passes, participants are willing to keep investing time and wait for the reward; in contrast, if the expected time increases as time passes, people eventually give up the wait.
We attempted to replicate this result and to extend it to situations where the relationship between elapsed time and expected wait suddenly reverses within the same session.




Participants appear to behave similarly under different distributions of delays; changes in direction of the mean residual life seem to have little effect, if any, over individual willingness to wait or to persist.

Across participants, time spent waiting before giving up shows a similar distribution under both shapes of mean residual life, even when controlling for between-subject factors.
These preliminary analyses contrast with previous reports (see references). We suggest discrepancies may be due to several uncontrolled characteristics between delay distributions used in precedent studies, such as the expected value of the delay distribution.

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[^0]:    McGuire, J. T. and Kable, J. W. (2012). Decision makers calibrate behavioral persistence on the basis of time-interval experience. Cognition, 124, 216:226. McGuire, J. T. and Kable, J. W. (2013). Rational temporal predictions can underlie apparent failures to delay gratification. Psychologicicl Review, 120, 395:401. task was proposed by J. T. McGuire and J. W. Kable (2012). Our version is largely based on theirs.

