# Impact of Awe Induction on Creativity Jackson Bohrer, Zephaniah Johnson, Chris Zimmerman, and Dr. Neil Schmitzer-Torbert **Department of Psychology, Wabash College**

## Overview

This was a two-part study that attempted to find a link between awe induction, perceived time availability, and creative thinking. The first study sought to replicate the findings of a 2018 study by Rudd and colleagues, which found that awe can enhance people's perception of time. We evaluated the effect of awe induction on creativity using the Alternative Uses Test. The second study was performed for the same purposes and utilized the same creativity measure, but also included the Creative Achievement Questionnaire and Dispositional Positive Emotion Scale.

Study 1 was conducted in the spring of 2023 with a sample of Wabash students and participants recruited from the online site, Prolific (n = 116). Study 1 successfully induced awe and greater perceived time availability in participants assigned to the aweinduction group but failed to show any effect of awe on creativity. In the fall of 2023, we attempted another replication of this study with a total of 60 participants, all of whom were recruited from Wabash. This study was unsuccessful in inducing awe, influencing perceived time availability, and affecting creativity. Since the awe induction of Study 2 was unsuccessful, the results are inconclusive.

Although both replications of the study were unsuccessful in showing any effect of awe induction on creative thinking, the induction of awe was only successful in the first study, which warrants further testing to determine if these results stand. While the measure of creativity may be modified to better fit the participant body, the findings of Rudd and colleagues could still potentially be replicated with further experimentation.

• Participants were recruited from Wabash emotions: happiness, amusement, awe, College and via Prolific (n = 116). The fear, sadness, and enthusiasm. awe induction was administered to induce. The Future Time Perspective and awe in the awe-induction group. Perceived Time Availability Scale was • *"Please try to recall an event in your"* given to determine the effect of the awe life when you saw a particular induction. panoramic view for the first time. • The Alternative Uses Test was given Some examples might be seeing the lastly as a measure of participants' Grand Canyon, seeing the view from creativity to determine the effectiveness high up on a mountain, or seeing the of the awe and amusement induction. skyline of a big city for the first time. Please recall a specific event when you saw this view for the first time, rather than a general period of time." • The Current Emotion Scale was administered next to determine participants' feelings of the following





Figure 1.3. The Awe-induction group (M = 5.0, SD = 1.4) had significantly higher PTA ratings (t(115) = 2.699, p = 0.008, d = 0.501) than the Amusement-induction group (M = 4.2, SD = 1.7).

### Procedure for Study 1

# **Results for Study 1**

Condition

Figure 1.1. The Awe-induction group (M = 3.9, SD = 1.9) had significantly higher ratings of awe (t(115) = 5.574, p < 0.001, d = 1.034) than the Amusement-induction group (M = 1.9, SD = 1.8).

Condition



Figure 1.2. The Amusement-induction group (M = 3.7, SD = 1.8) had significantly higher ratings of amusement (t(115) = -2.894, p = 0.005, d = -0.537) than the Awe-induction group (M = 2.778, SD = 1.6).



Figure 1.4. The Awe-induction group (M = 4.1, SD = 1.6) did not have significantly higher AUT scores (t(115) = 0.210, p = 0.834, d = 0.039) than the Amusement-induction group (M = 4.1,

- initial impression of participants' feelings in emotions including joy,
- in the same order as in Study 1



1. Awe	Pearson's r	_				
	p-value	—				
2. DPES.awe	Pearson's r	0.365 **	—			
	p-value	0.009	—			
3. CAQ	Pearson's r	0.068	0.094	—		
	p-value	0.634	0.510	_		
4. AUT	Pearson's r	-0.053	0.091	0.123	—	
	p-value	0.710	0.525	0.388	—	
5. PTA	Pearson's r	0.126	0.305 *	-0.136	-0.075	—
	p-value	0.380	0.029	0.340	0.600	_

