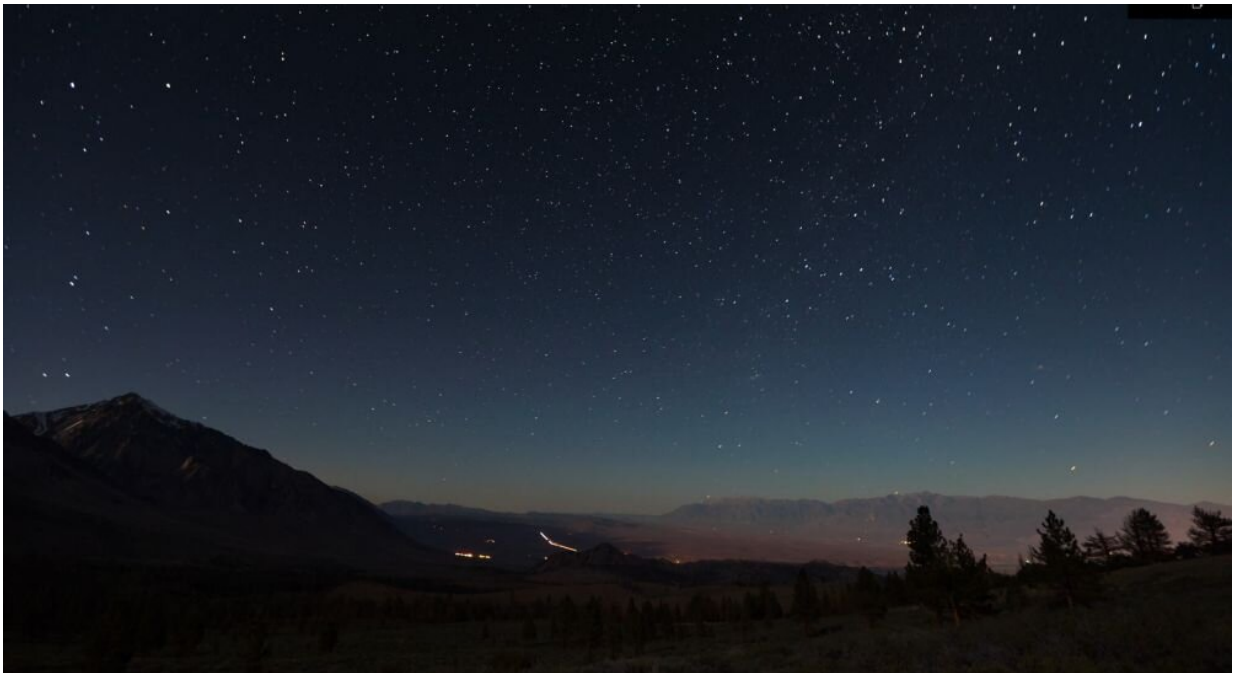


Art and nature elicit equally intense sense of 'the sublime' in virtual reality

March 17 2021



Starry night. Credit: Alice Chirico

An immersive, 360° video of a painting versus a video of the actual location depicted in the painting elicit similar levels of "the sublime," an experience closely associated with feelings of awe. Alice Chirico of Università Cattolica del Sacro Cuore di Milano, Italy, and colleagues present their findings in the open-access journal *PLOS ONE* on March 17, 2021.

For centuries, philosophers have debated the nature of the sublime, which can be thought of as an [aesthetic experience](#) evoked by stimuli that may be perceived as vast, powerful, or rare—such as a landscape or a storm. Psychologists often equate the sublime to awe, and to study it, many have used pictures or videos of [natural](#) scenes to induce the sublime in study participants.

Chirico and colleagues now report the first investigation into whether artistic and photorealistic representations of nature differ in evoking the sublime. They measured the [emotional responses](#) of 50 study participants before and after viewing immersive, 360° videos of Vincent Van Gogh's *The Starry Night* and of Saint-Rémy-de-Provence, the natural location depicted in the painting.

Statistical analysis of the participants' responses showed that both [virtual-reality](#) videos induced the sublime with similar intensity. However, they differed with regards to certain sub-dimensions of the sublime. For instance, the nature-based video evoked a greater sense of vastness and a greater perception of existential danger.

Moreover, while the videos elicited similar emotions, the nature-based video evoked feelings of fear and positive affect that were of significantly higher intensity than those elicited by the art-based video. Participants also reported a greater sense of being present in the nature-based [video](#) than in the art-based one.

These findings demonstrate the potential for virtual reality as a research tool to deepen understanding of the sublime and other complex phenomena. Because participants in this study were already familiar with *The Starry Night*, future work could explore how people's prior acquaintance with stimuli might impact their experience of the sublime.

The authors add: "By using virtual reality, we provided the first

empirical contribution to the enduring debate about whether nature or instead art is better at evoking the experience of the sublime. We found that both nature and art are effective elicitors, although they exhibit different nuances."

More information: Chirico A, Clewis RR, Yaden DB, Gaggioli A (2021) Nature versus art as elicitors of the sublime: A virtual reality study. *PLoS ONE* 16(3): e0233628.

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