

UC Merced

Proceedings of the Annual Meeting of the Cognitive Science Society

Title

Expertise mitigates the inherence bias in everyday explanations

Permalink

<https://escholarship.org/uc/item/3hp6r4ph>

Journal

Proceedings of the Annual Meeting of the Cognitive Science Society, 45(45)

Authors

Kobas, Mert
Tworek, Christina M
Cimpian, Andrei

Publication Date

2023

Peer reviewed

Expertise mitigates the inherece bias in everyday explanations

Mert Kobas

New York University, New York, New York, United States

Christina Tworek

Gerson Lehrman Group, New York, New York, United States

Andrei Cimpian

New York University, New York, New York, United States

Abstract

A recent proposal suggests that the cognitive mechanisms involved in generating explanations (e.g., long-term and working memory) lead to an “inherece bias” in the content of the explanations generated. That is, explanations tend to rely on inherent or intrinsic features more often than would be normatively warranted. Here, we investigated a prediction of this account: namely, that participants’ expertise in a domain should mitigate the inherece bias in their explanations in that domain, in part because experts have a broader and more accessible knowledge base about the domain, which might include extrinsic, contextual features. Across two studies (total N = 391), we asked participants how much they agree with inherent and extrinsic explanations for a variety of phenomena and measured their expertise in the relevant domains via self-report (e.g., how many books or articles they’d read). As predicted, in both studies greater expertise predicted lower inherece bias, $p_s < .05$.