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Authors

Beck, Jacqueline

Li, Yanting

Dutta, Rajeev

et al.

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Do ducks lay eggs? How interactivity shapes generic generalizations.

Jacqueline Beck

University of California, Irvine, Irvine, California, United States

Yanting Li

UC Irvine, Irvine, California, United States

Rajeev Dutta

University of California, Irvine, Irvine, California, United States

Tiffany Zhu

University of California, Irvine, Irvine, California, United States

Anna Pederneschi

University of California Irvine, Irvine, California, United States

Alejandro Curiel

California State University East Bay, Hayward, California, United States

Camryn Graver-Dowd

California State University East Bay, Hayward, California, United States

Isabel Greyson

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

Karime Ultreras-Castro

California State University East Bay, Hayward, California, United States

Katherine Ritchie

University of California, Irvine, Irvine, California, United States

Ny Vasil

California State University East Bay, Hayward, California, United States

Abstract

Generic generalizations play an important role in communication and learning. Recently, we argued that all generics favor stability across background circumstances. This, however, appears to be false for minority-characteristic generics (“ducks lay eggs” - only females do). In response to this challenge, we developed a hypothesis that highly interactive systems (like sexually-reproducing species) resist partitioning into subcomponents (male vs. female) in the course of generic evaluation. Consequently, a higher prevalence of the property (“laying eggs”) in one subset does not qualify as instability, and generics attributing that property to the kind are not penalized. We evaluated this hypothesis in an experiment with 99 adults, manipulating descriptions of the manner in which novel species reproduced: interactive vs. non-interactive. As predicted, generic generalizations describing interactive mechanisms were endorsed more than non-interactive equivalents. These findings support our stability argument and highlight the key role of causal-theoretical considerations and conceptual representation in assessments of generics.