

Review of: "Decoding the Correlation Coefficient: A Window into Association, Fit, and Prediction in Linear Bivariate Relationships"

Clark D. Jeffries¹

1 University of North Carolina at Chapel Hill

Potential competing interests: No potential competing interests to declare.

The article states, "Correlation is often misused but possesses interesting qualities beyond a simple measure of association or tightness." I agree that Pearson correlation is often assumed to measure "tightness" of two real vectors of dimension n > 3 when neither is a multiple of 1 = (1, 1, ..., 1). However, a correlation of 1 means the two vectors are linearly related as Y = mX + b 1 with m > 0. But in fact, in all such dimensions there are pairs of vectors with correlation 1 and dot product 0 (orthogonal)--not very "tight". That is what Pearson correlation does. There are many associated types of pitfalls.

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