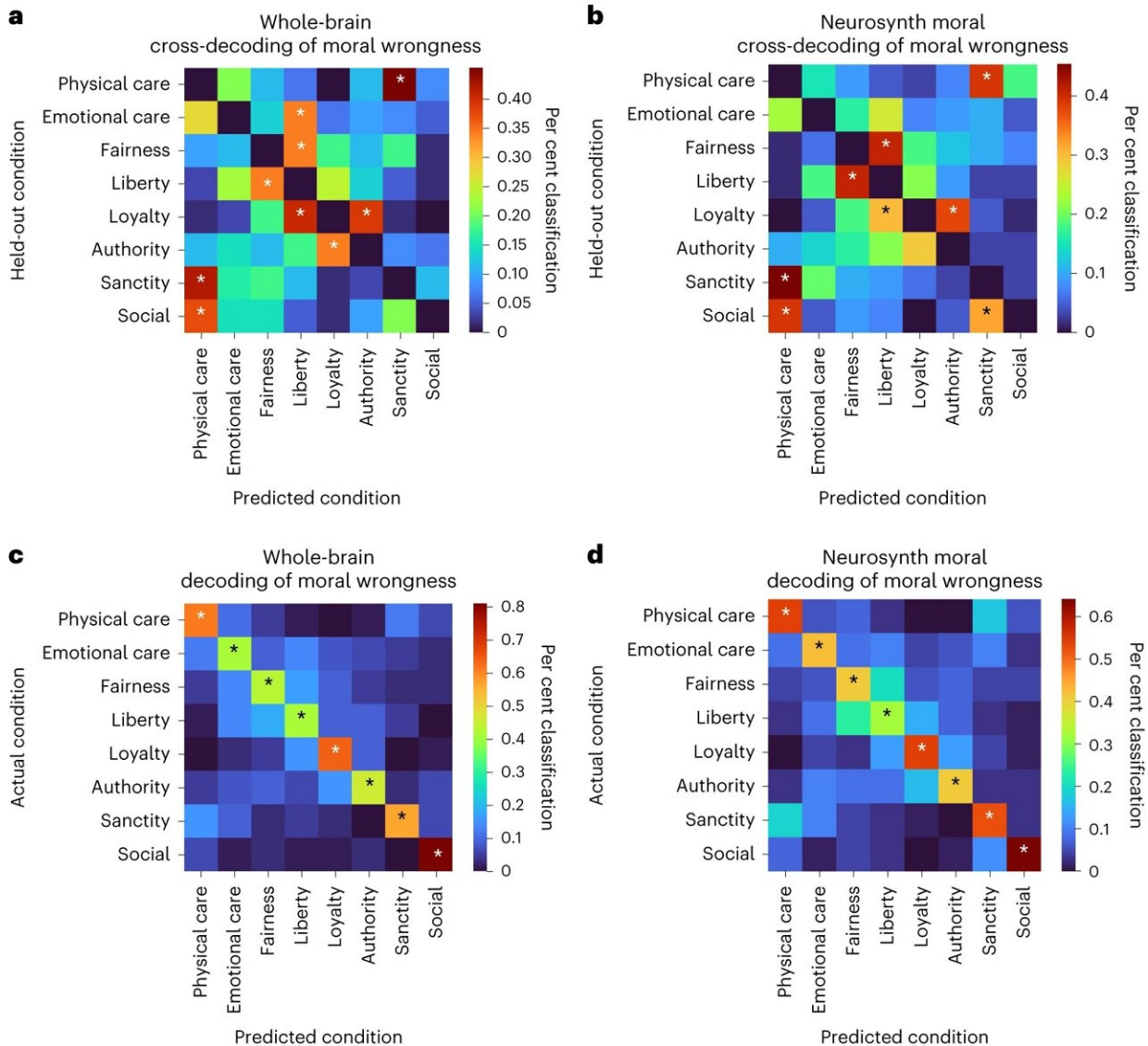


# Moral reasoning found to display characteristic patterns in the brain

September 7 2023, by Harrison Tasoff



Cross-decoding of moral wrongness ratings. A multiclass (one-versus-one) linear SVM was trained to discriminate between each pair of condition-based moral

wrongness beta maps. **a,b**, For cross-decoding, moral wrongness beta maps from one condition were held out during training. The SVM was then used to classify the held-out moral wrongness beta map into one of the remaining seven conditions. **c,d**, For decoding, the SVM was provided with moral wrongness beta maps from all conditions during training and testing. Both cross-decoding and decoding SVMs were cross-validated via a LOSO pipeline. Voxels spanned the whole brain (**a,c**) and neurosynth ‘moral’ mask (**b,d**). Stars (\*) indicate that the frequency of classifications is significantly ( $P$

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