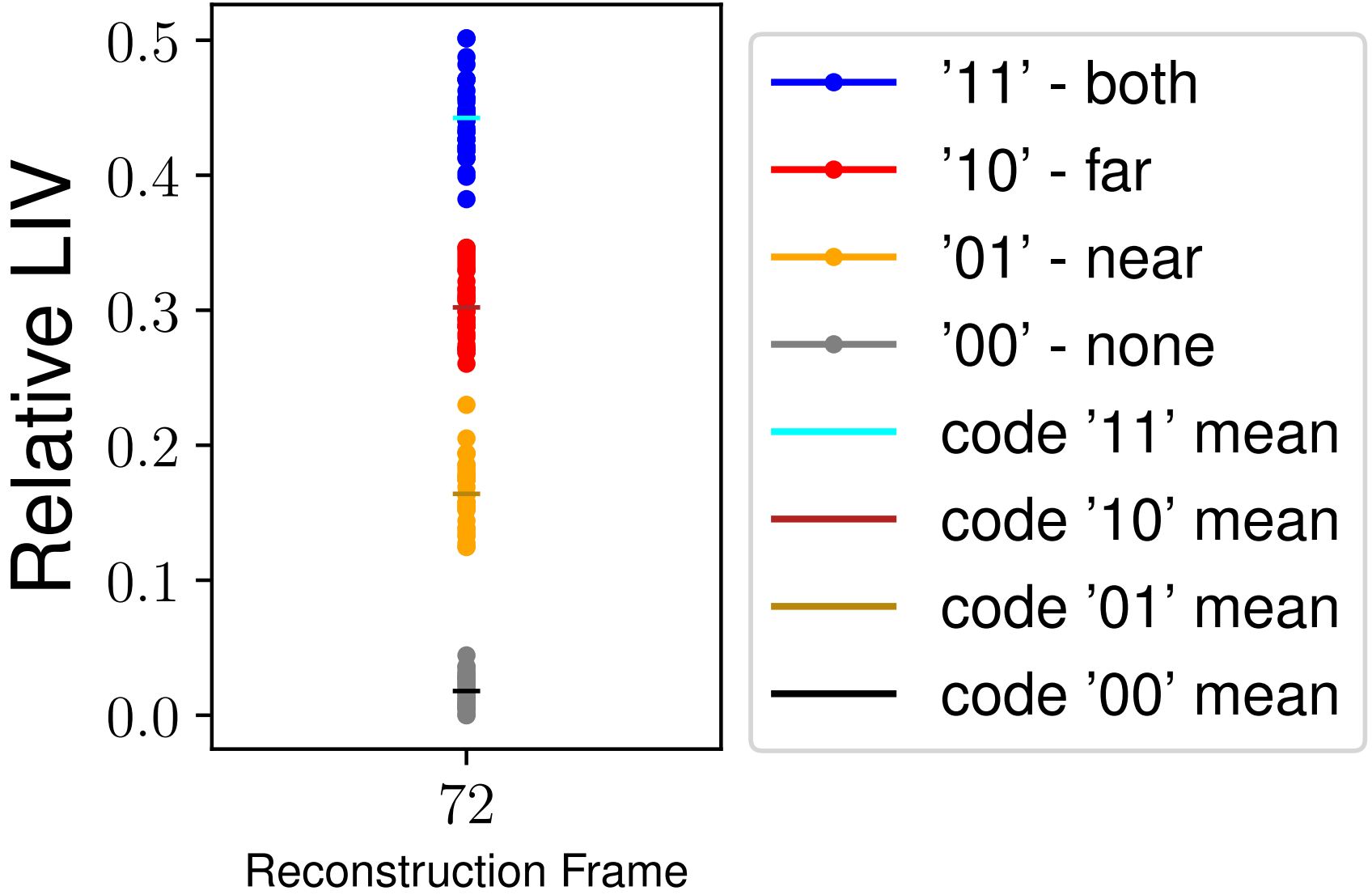LIVs in Reconstructionframe